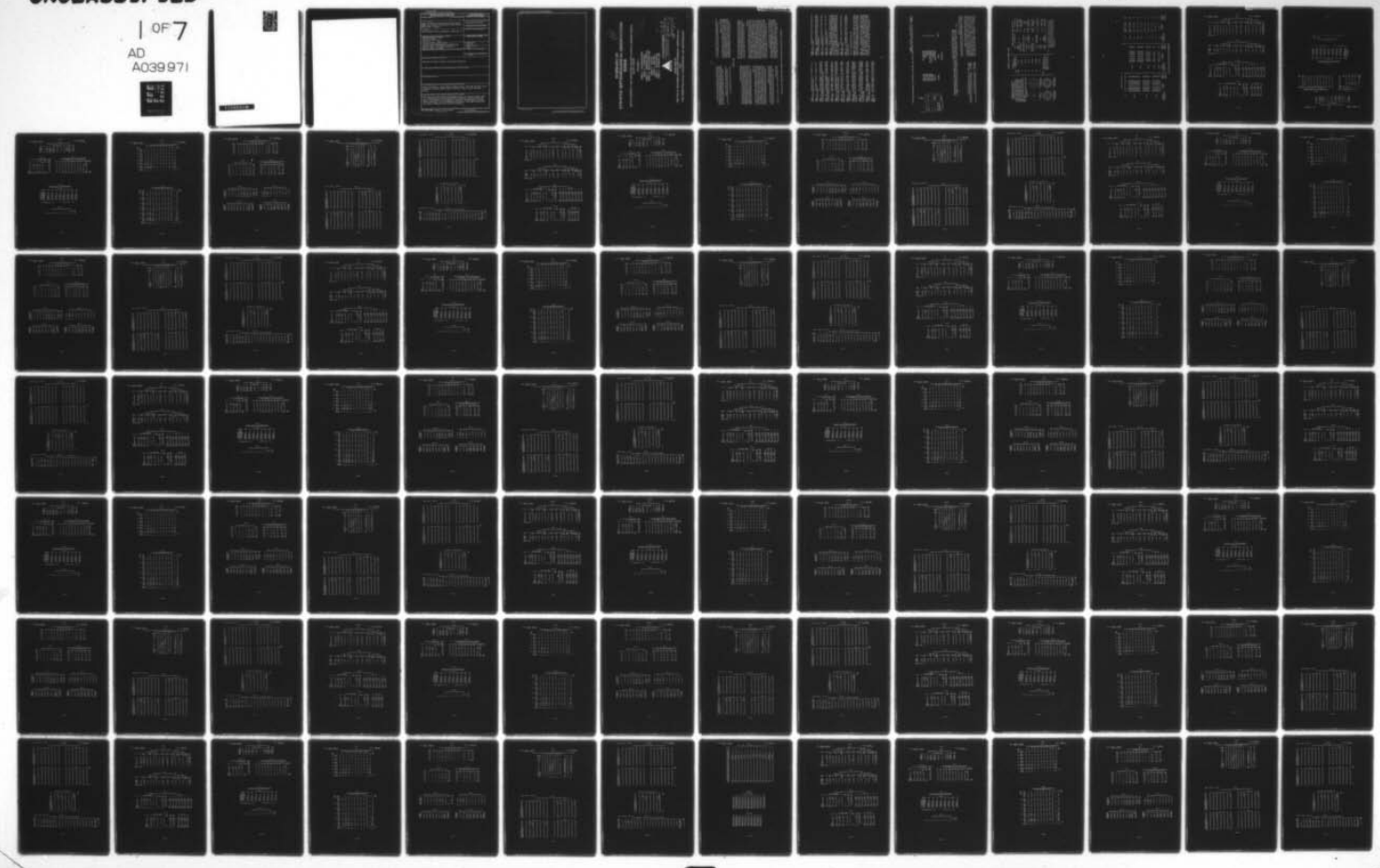
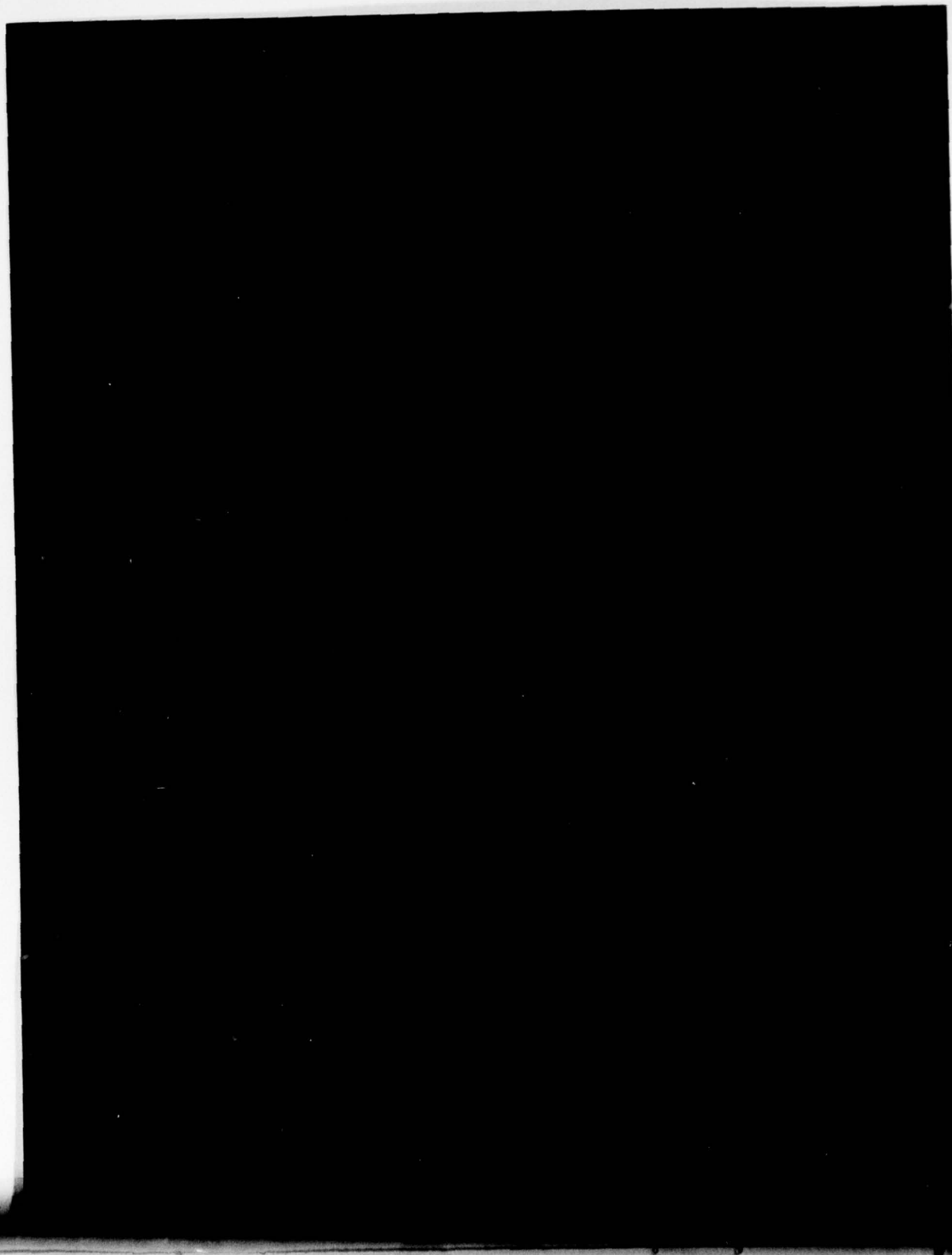
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). SOUTH A--ETC(U)
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20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

SOUTH AMERICA AND SELECTED ISLAND COASTAL MARINE AREAS EAST COAST

VOLUME 1

AREA 1 - GEORGETOWN
AREA 2 - CAYENNE
AREA 3 - AMAZON DELTA
AREA 4 - FORTALEZA NW
AREA 5 - NATAL
AREA 6 - RECIFE
AREA 7 - SALVADOR
AREA 8 - VITORIA NE

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THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

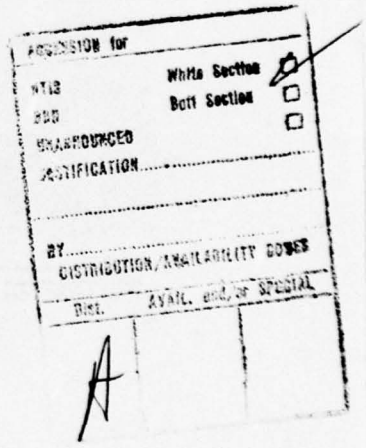
Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

CONTENTS

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1	GEORGETOWN	1-79
2	CAYENNE	80-158
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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two *different* 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

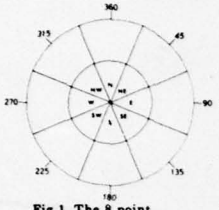


Fig 1. The 8 point direction system.

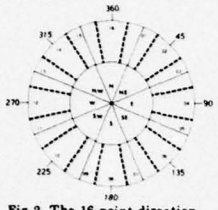


Fig 2. The 16 point direction system superimposed on the 8 point system.

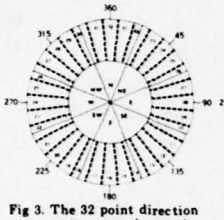


Fig 3. The 32 point direction system superimposed on the 8 point system.

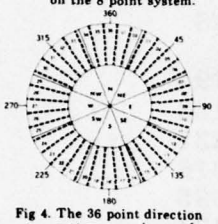


Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	VV<1/2
94	1/2≤VV<1
95	1≤VV<2
96	2≤VV<5
97	5≤VV<10
98	10≤VV<25
99	VV≥25

NOTE: <means less than; >means greater than; ≤means less than or equal to; ≥means greater than or equal to.

PRESENT WEATHER (1960 WMO CODE 4677)

CODE	INTERPRETATION
58-59, 60-65, 91-94, (68-69,95,97 IF TEMP >40°F)	RAIN
80-82,(83-84 IF TEMP >40°F)	RAIN SHOWERS
50-55,58-59	DRIZZLE
56-57, 66-67	FREEZING PRECIPITATION
70-75,85-86 (68-69,83-84, 95,97 IF TEMP ≤40°F)	SNOW
76-79	OTHER FROZEN PRECIPITATION
87-90, 93-94, 96,99	HAIL
13,17, 19,29, 95-99	THUNDER LIGHTNING THUNDERSTORM

CODE	INTERPRETATION
10-12, 40-49	FOG (WITHOUT PRECIPITATION)
28	FOG (WITHOUT PRECIPITATION) PAST HOUR
04-05	SMOKE HAZE
06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
00-49	NO PRECIPITATION AT OB TIME
50-99	PRECIPITATION AT OB TIME
20-27	PRECIPITATION PAST HOUR

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25	<1
01	>.25 to .75	1-2
02	>.75 to 1.25	3-4
03	>1.25 to 1.75	5-6
04	>1.75 to 2.25	7
05	>2.25 to 2.75	8-9
06	>2.75 to 3.25	10-11
07	>3.25 to 3.75	12
08	>3.75 to 4.25	13-16
09	>4.25 to 4.75	
10	>4.75 to 5.25	17-19
11	>5.25 to 5.75	
12	>5.75 to 6.25	20-22
13	>6.25 to 6.75	
14	>6.75 to 7.25	23-25
15	>7.25 to 7.75	
16	>7.75 to 8.25	26-32
17	>8.25 to 8.75	
18	>8.75 to 9.25	
19	>9.25 to 9.75	
20	>9.75 to 10.25	33-40
21	>10.25 to 10.75	
22	>10.75 to 11.25	
23	>11.25 to 11.75	
24	>11.75 to 12.25	
25	>12.25 to 12.75	41-48
26	>12.75 to 13.25	
27	>13.25 to 13.75	
28	>13.75 to 14.25	
29	>14.25 to 14.75	
30	>14.75 to 15.25	49-60
31	>15.25 to 15.75	
32	>15.75 to 16.25	
33	>16.25 to 16.75	
34	>16.75 to 17.25	
35	>17.25 to 17.75	
36	>17.75 to 18.25	
37	>18.25 to 18.75	61-70
38	>18.75 to 19.25	
39	>19.25 to 19.75	
40	>19.75 to 20.25	
41	>20.25 to 20.75	
42	>20.75 to 21.25	
43	>21.25 to 21.75	71-86
44	>21.75 to 22.25	
45	>22.25 to 22.75	
46	>22.75 to 23.25	
47	>23.25 to 23.75	
48	>23.75 to 24.25	
49	>24.25 to 24.75	
50	>24.75 to 25.25	
51	>25.25 to 25.75	
52	>25.75 to 26.25	
53-99	>26.25 to 49.75	≥87

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1858-1974

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	2.5	.8	.0	.0	.0	.0	.0	3.3	3.4	.6	.8	.0	.0	.0	.0	92.0
NE	1.5	2.4	.7	.0	.0	.0	.0	4.5	3.0	*	.5	.0	.8	.0	.0	91.2
E	1.5	2.6	1.0	.0	.0	.0	.0	5.0	3.6	.1	.2	.0	.4	.2	.0	90.6
SE	2.3	.6	.0	.0	.0	.0	.0	2.9	2.3	2.3	.0	.0	.0	.0	.0	92.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
NW	3.0	12.1	.0	.0	.0	.0	.0	15.2	.0	.0	.0	.0	.0	.0	.0	84.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	1.6	2.4	.8	.0	.0	.0	.0	4.7	3.3	.1	.4	.0	.5	.1	90.9	
TOT OBS:	2499															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	1.2	2.3	1.0	.0	.0	.0	.0	4.5	3.0	.2	.8	.0	.3	.2	.0	91.0
06&09	.9	2.2	.9	.0	.0	.0	.0	4.0	4.2	.2	.0	.0	.2	.0	91.4	
12&15	3.1	3.3	.7	.0	.0	.0	.0	6.9	3.2	.0	.4	.0	.3	.0	89.2	
18&21	.9	1.9	.5	.0	.0	.0	.0	3.2	2.8	.2	.3	.0	1.2	.2	92.1	
TOT PCT	1.6	2.5	.8	.0	.0	.0	.0	4.8	3.3	.1	.4	.0	.5	.1	90.9	
TOT OBS:	2514															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.2	1.7	*	.0	.0		5.2	9.7	5.3	3.2	6.3	2.7	5.1	9.9	3.8	5.3
NE	.8	16.2	28.9	2.8	*	.0		48.6	13.2	47.8	53.2	46.1	55.9	50.9	44.7	47.2	54.2
E	.8	13.0	26.7	2.9	*	.0		43.4	13.6	44.6	40.5	45.3	40.3	41.0	39.0	46.5	38.8
SE	.2	1.0	.6	.1	.0	.0		1.8	10.1	1.9	2.3	1.9	1.1	1.3	4.1	1.5	1.8
S	.1	.1	.0	*	.0	.0		.2	6.6	.1	.0	.1	.0	.4	1.2	.0	.0
SW	.1	.1	*	.0	.0	.0		.2	4.7	*	.9	.0	.0	.5	.4	.2	.0
W	.0	.1	.0	.0	.0	.0		.1	6.3	.0	.0	.0	.0	.3	.0	.2	.0
NW	*	.2	*	.0	.0	.0		.3	8.0	.1	.0	.1	.0	.3	.7	.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.1	.0	.2	.0	.3	.0	.2	.0
TOT OBS	79	1027	1756	177	2	0	3035		13.1	679	111	514	111	700	187	619	114
TOT PCT	2.4	33.8	57.9	5.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	2.9	.6	.0	.0		5.2	9.7	5.0	5.6	6.1	4.0
NE	4.6	31.5	12.2	.3	.0		48.6	13.2	48.6	47.8	49.6	48.3
E	4.2	27.2	11.6	.4	.0		43.4	13.6	44.0	44.4	40.6	45.3
SE	.6	.9	.3	.0	.0		1.8	10.1	1.9	1.8	1.9	1.5
S	.2	.0	*	.0	.0		.2	6.6	.1	.1	.3	.0
SW	.2	*	.0	.0	.0		.2	4.7	.2	.0	.3	.1
W	.1	*	.0	.0	.0		.1	6.3	.0	.0	.2	.1
NW	.1	.1	*	.0	.0		.3	8.0	.1	.1	.4	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.1	.2	.2	.1
TOT OBS	358	1906	750	21	0	3035		13.1	790	625	887	733
TOT PCT	11.8	62.8	24.7	.7	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1858-1974

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	2.7	36.7	54.1	6.5	.0	.0	12.9	100.0	790
06&09	.2	1.0	33.8	60.5	4.6	.0	.0	13.1	100.0	625
12&15	.2	4.2	35.5	54.3	5.7	.0	.0	12.6	100.0	887
18&21	.1	.5	28.8	64.0	6.3	.3	.0	13.9	100.0	733
TOT	5	68	1027	1756	177	2	0	13.1		3035
PCT	.2	2.2	33.8	57.9	5.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.0	1.3	.7		4.3
NE	15.5	13.4	13.9	4.1		3.9
E	15.0	14.3	13.8	3.6		3.8
SE	.5	.4	.4	.2		4.1
S	.0	.0	*	.0		6.0
SW	.0	.0	.1	.0		7.0
W	.0	.0	.1	.1		7.0
NW	.1	.1	.1	.1		4.8
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.0		4.0
TOT OBS	636	574	585	170	1965	3.9
TOT PCT	32.4	29.2	29.8	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.2	.4	.2	.1	.0	*	.0	3.1	
NE	.1	.1	.7	2.4	4.1	1.7	.9	.2	*	.0	36.7	
E	.2	.1	.2	2.2	4.6	2.2	.5	*	.1	.1	36.4	
SE	.0	.0	.1	.1	.2	.1	.1	.0	.0	.0	1.1	
S	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
TOT OBS	5	4	20	96	184	85	39	4	3	2	1530	1965
TOT PCT	.3	.2	1.0	4.9	9.4	4.3	1.8	.2	.2	.1	77.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >3000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	5.4	6.3	6.5	6.5	6.5	6.5	6.5	6.5
= OR >1000	13.9	15.5	15.8	15.8	15.8	15.8	15.8	15.8
= OR >600	17.8	20.0	20.5	20.5	20.5	20.5	20.5	20.5
= OR >300	18.7	21.1	21.5	21.6	21.6	21.6	21.6	21.6
= OR >150	18.9	21.3	21.7	21.8	21.8	21.8	21.8	21.8
= OR > 0	19.0	21.5	22.0	22.0	22.0	22.0	22.0	22.0
TOTAL	373	422	432	433	433	433	433	433

TOTAL NUMBER OF OBS: 1966 PCT FREQ NH <5/8: 78.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.1	16.0	23.5	19.7	12.5	7.2	5.7	4.6	4.6	.2	2064

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	2.7	36.7	54.1	6.5	.0	.0	12.9	100.0	790
06&09	.2	1.0	33.8	60.5	4.6	.0	.0	13.1	100.0	625
12&15	.2	4.2	35.5	54.3	5.7	.0	.0	12.6	100.0	887
18&21	.1	.5	28.8	64.0	6.3	.3	.0	13.9	100.0	733
TOT	5	68	1027	1756	177	2	0	13.1		3035
PCT	.2	2.2	33.8	57.9	5.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.0	1.3	.7		4.3
NE	15.5	13.4	13.9	4.1		3.9
E	15.0	14.3	13.8	3.6		3.8
SE	.5	.4	.4	.2		4.1
S	.0	.0	*	.0		6.0
SW	.0	.0	.1	.0		7.0
W	.0	.0	.1	.1		7.0
NW	.1	.1	.1	.1		4.8
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.0		4.0
TOT OBS	636	574	585	170	1965	3.9
TOT PCT	32.4	29.2	29.8	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.2	.4	.2	.1	.0	*	.0	3.1	
NE	.1	.1	.7	2.4	4.1	1.7	.9	.2	*	.0	36.7	
E	.2	.1	.2	2.2	4.6	2.2	.5	*	.1	.1	36.4	
SE	.0	.0	.1	.1	.2	.1	.1	.0	.0	.0	1.1	
S	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
TOT OBS	5	4	20	96	184	85	39	4	3	2	1530	1965
TOT PCT	.3	.2	1.0	4.9	9.4	4.3	1.8	.2	.2	.1	77.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	5.4	6.3	6.5	6.5	6.5	6.5	6.5	6.5
* OR >1000	13.9	15.5	15.8	15.8	15.8	15.8	15.8	15.8
* OR >600	17.8	20.0	20.5	20.5	20.5	20.5	20.5	20.5
* OR >300	18.7	21.1	21.5	21.6	21.6	21.6	21.6	21.6
* OR >150	18.9	21.3	21.7	21.8	21.8	21.8	21.8	21.8
* OR > 0	19.0	21.5	22.0	22.0	22.0	22.0	22.0	22.0
TOTAL	373	422	432	433	433	433	433	433

TOTAL NUMBER OF OBS: 1966

PCT FREQ NH <5/8: 78.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	16.0	23.5	19.7	12.5	7.2	5.7	4.6	4.6 .2	2064

PERIOD: (PRIMARY) 1938-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	*	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	*	.0	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	PCP	.1	.2	.2	*	.0	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.1	.6	.6	.1	.0	.1	.0	*	.0	.0	1.4	
	TOT %	.2	.8	.8	.2	.0	.1	.0	*	.0	.0	2.0	
	PCP	.0	.5	.8	.0	.0	.0	.0	.0	.0	.0	1.2	
5<10	NO PCP	1.3	5.1	4.1	.1	.1	.1	*	*	.0	*	11.0	
	TOT %	1.3	5.6	4.9	.1	.1	.1	*	*	.0	*	12.3	
	PCP	.1	1.2	1.0	*	.0	.0	*	*	.0	.0	2.4	
10+	NO PCP	3.7	39.4	37.6	1.4	.1	*	*	.2	.0	.2	82.6	
	TOT %	3.8	40.6	38.7	1.5	.1	*	.1	.2	.0	.2	84.9	
	TOT OBS												2491
	TOT PCT	5.2	47.3	44.7	1.8	.2	.2	.1	.3	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	.0	.0	.0	.0	*	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	*	.1	.1	.0	*	*	.0	.0	.0		.3	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	.0	*	*	.0	.0	.0	.0	.3	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	.3	.1	.0	*	*	.0	.0	.0		.5	
	11-21	*	.1	*	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.4	.2	.0	*	*	.0	.0	.0	.0	.7	
	0-3	.1	.1	.1	.1	.0	*	.0	.0	.0	.0	.4	
2<5	4-10	*	.4	.4	.1	.0	*	.0	*	.0		1.0	
	11-21	*	.4	.3	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	.9	.8	.1	.0	.1	.0	*	.0	.0	2.1	
	0-3	.1	.2	.3	*	.1	.1	.0	.0	.0	*	.9	
5<10	4-10	.9	2.5	1.9	.1	*	.0	*	*	.0		5.5	
	11-21	.2	2.6	2.4	*	.0	.0	.0	*	.0		5.2	
	22+	.0	.4	.2	.0	.0	.0	.0	.0	.0		.6	
	TOT %	1.2	5.7	4.8	.1	.1	.1	*	*	.0	*	12.2	
	0-3	*	.6	.4	*	.0	.0	.0	.0	.0	.1	1.2	
10+	4-10	2.3	12.0	9.6	.7	*	*	.1	.2	.0		24.9	
	11-21	1.3	26.3	25.3	.5	.0	.0	.0	*	.0		53.4	
	22+	*	2.2	2.7	.1	*	.0	.0	.0	.0		5.0	
	TOT %	3.6	41.1	38.0	1.3	.1	*	.1	.2	.0	.1	84.5	
	TOT OBS												2736
	TOT PCT	5.1	48.3	44.0	1.6	.2	.2	.1	.3	.0	.2	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	.6	2.6	6.7	3.7	2.2	.2	.2	.2	16.8	83.2	465
06&09	.0	.2	.7	3.7	9.2	3.3	1.5	.0	.0	.0	18.5	81.5	459
12&15	.2	.4	1.2	6.6	10.6	5.6	1.5	.0	.0	.2	26.3	73.7	518
18&21	.5	.0	1.3	5.5	9.5	4.2	1.2	.5	.3	.0	23.0	77.0	599
TOT	5	4	20	96	185	86	32	4	3	2	437	1604	2041
PCT	.2	.2	1.0	4.7	9.1	4.2	1.6	.2	.1	.1	21.4	78.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	1.2	1.3	3.0	15.2	79.2	692
06&09	.0	.0	.0	.7	8.4	90.9	583
12&15	.1	.0	1.1	3.3	16.2	79.2	789
18&21	.3	.0	.3	1.0	8.3	90.1	687
TOT	4	8	20	58	339	2322	2751
PCT	.1	.3	.7	2.1	12.3	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.1	4.9	13.4	81.7	448
06&09	.0	.9	5.0	14.1	80.9	439
12&15	.2	2.0	9.4	18.0	72.5	499
18&21	.7	2.2	8.3	16.0	75.7	580
TOT	6	32	139	305	1522	1966
PCT	.3	1.6	7.1	15.5	77.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	.0	.0	7	.3
85/89	.0	.0	*	.3	1.0	1.1	.3	.3	63	3.0
80/84	.0	.0	.0	.4	5.8	28.6	14.3	4.1	1104	53.2
75/79	.0	.0	.0	*	1.0	17.0	17.5	7.4	891	42.9
70/74	.0	.0	.0	.0	.0	.0	.3	.3	12	.6
TOTAL	0	0	1	18	166	970	671	251	2077	100.0
PCT	.0	.0	*	.9	8.0	46.7	32.3	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	*	.0	.0	.0	.0	.0	.0	.0
.2	1.2	1.4	.1	*	*	*	.1	.0	.0
2.7	24.2	25.0	1.0	*	.1	.0	.1	.0	.1
2.7	22.3	16.8	.6	.2	.1	*	.1	.0	.1
*	.3	.1	*	.0	*	*	.0	.0	.0
5.6	48.2	43.4	1.7	.2	.2	.1	.3	.0	.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	83	82	79	77	74	70	79.2	785
06&09	85	82	81	79	76	75	73	78.8	626
12&15	92	87	84	80	77	74	73	79.9	887
18&21	92	88	86	81	78	75	72	81.3	729
TOT	92	87	84	80	77	75	70	79.8	3027

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.6	42.8	39.6	13.1	81	505
06&09	.0	.2	2.3	45.0	40.3	12.2	81	442
12&15	.0	1.0	7.0	44.9	31.9	15.1	80	601
18&21	.0	2.4	16.9	53.9	19.0	7.8	76	538
TOT	0	20	166	975	672	253	80	2086

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PERIOD: (PRIMARY) 1938-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	4	.0	.2
9/10	.0	.0	.0	.0	.1	.1	6	.0	.3
7/8	.0	.0	.0	*	.5	.2	16	.0	.7
6	.0	.0	.0	.0	.3	.0	6	.0	.3
5	.0	.0	*	.2	.7	*	23	.0	1.0
4	.0	.0	.1	.8	.5	.0	33	.0	1.5
3	.0	.0	.4	1.3	.4	.0	50	.0	2.2
2	.0	.0	1.1	5.3	.1	.0	147	.1	6.4
1	.0	.0	3.1	5.8	.3	.0	210	.1	9.2
0	.0	.1	12.5	7.4	.1	.0	455	.2	19.9
-1	.0	*	16.2	3.8	.0	.0	453	*	20.0
-2	.0	.1	14.0	2.1	.0	.0	367	*	16.2
-3	.0	.2	8.4	.7	.0	.0	210	.0	9.3
-4	.0	.8	4.8	.5	.0	.0	138	.0	6.1
-5	.0	.6	2.0	.3	.0	.0	66	.0	2.9
-6	.0	.5	1.1	.0	.0	.0	36	.0	1.6
-7/-8	.0	.5	.7	.0	.0	.0	28	.0	1.2
-9/-10	.0	.3	.1	.0	.0	.0	10	.0	.4
-11/-13	*	.2	.0	.0	.0	.0	5	.0	.2
TOTAL	1		1465		69			10	2253
		77		639		12	2263		
PCT	*	3.4	64.7	28.2	3.0	.5	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.3	.0	.0	.0	.8
3-4	.0	.5	.6	.0	.0	.0	1.2
5-6	.0	.1	.9	.0	.0	.0	.9
7	.0	.2	.7	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.6	.0	.0	.0	3.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	3.5	2.8	.0	.0	.0	6.4
3-4	.0	4.7	10.2	.5	.0	.0	15.4
5-6	.2	1.6	13.0	.3	.0	.0	15.1
7	.0	.5	5.0	.5	.0	.0	6.1
8-9	.0	*	1.9	.3	.0	.0	2.3
10-11	.0	.0	.7	.3	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	11.0	33.7	1.9	.0	.0	47.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.2	.0	.0	.0	1.0
1-2	.0	2.5	2.8	.0	.0	.0	6.3
3-4	.0	4.8	8.8	.6	.0	.0	14.1
5-6	.0	.7	10.4	.7	.0	.0	11.9
7	.0	.6	7.1	1.5	.0	.0	9.2
8-9	.0	.1	2.8	.5	.0	.0	3.4
10-11	.0	.0	.9	.3	.0	.0	1.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	10.4	33.1	3.8	.0	.0	47.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.2	*	.0	.0	.0	.3
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.5	.0	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.1	.0	.0	.0	.1	
3-4	.0	.0	*	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.0	.0	.0	.1	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	1.5	.2	.0	.0	.0	2.1	
1-2	.1	7.7	6.1	.0	.0	.0	13.9	
3-4	.0	10.3	19.7	1.0	.0	.0	31.1	
5-6	.2	2.5	24.3	1.0	.0	.0	28.1	
7	.0	1.4	13.0	2.1	.0	.0	16.4	
8-9	.0	.1	4.8	.8	.0	.0	5.7	
10-11	.0	.0	1.7	.6	.0	.0	2.3	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	23.5	70.0	5.7	.0	.0	100.0	871

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.4	14.7	8.3	4.8	1.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	588	4
6-7	.0	.5	7.0	14.3	8.6	3.0	2.4	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	624	6
8-9	.0	.2	1.1	3.0	7.0	2.7	.8	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	7
10-11	.0	.1	.2	.6	1.4	.9	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	8
12-13	.0	.0	.2	.4	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
>13	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	.6	.9	1.4	1.5	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
TOTAL	18	104	416	479	393	160	72	34	11	5	0	0	0	0	0	0	0	0	0	1692	5
PCT	1.1	6.1	24.6	28.3	23.2	9.5	4.3	2.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

AREA 0001 GEORGETOWN
6.9N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.9	.6	.0	.0	.0	.0	.0	1.5	4.2	.0	.0	.0	.0		.0	94.3
NE	.7	2.1	.3	.0	.0	.0	.0	3.1	2.7	*	.3	.0	1.2		.0	92.6
E	.7	1.4	.5	.0	.0	.0	.0	2.5	3.0	.1	.4	.0	.6		.0	93.5
SE	7.2	6.7	3.3	.0	.0	.0	.0	16.1	.0	.0	.0	.0	.0		.0	83.9
S	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0		.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
NW	25.8	.0	.0	.0	.0	.0	.0	25.8	.0	.0	.0	.0	.0		.0	74.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	1.0	1.8	.4	.0	.0	.0	.0	3.1	2.8	*	.3	.0	.9		.0	92.8
TOT OBS:	2457															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.5	1.4	.2	.0	.0	.0	.0	2.1	1.9	.2	.7	.0	1.0		.0	94.2
06609	.9	2.2	.9	.0	.0	.0	.0	3.6	4.3	.0	.2	.0	.5		.0	91.4
12615	1.9	2.1	.6	.0	.0	.0	.0	4.6	2.6	.0	.3	.0	.4		.0	92.1
18621	.5	1.4	.2	.0	.0	.0	.0	2.1	2.6	.0	.2	.0	1.6		.0	93.6
TOT PCT	1.0	1.8	.4	.0	.0	.0	.0	3.1	2.8	*	.3	.0	.9		.0	92.8
TOT OBS:	2460															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.8	1.7	.1	.0	.0		3.7	11.0	3.8	5.3	2.9	3.3	3.1	4.2	3.7	8.1
NE	.9	14.6	33.3	2.7	.0	.0		51.4	13.5	52.3	58.3	49.1	62.3	50.9	58.7	45.7	61.2
E	.7	11.0	28.6	2.2	.0	.0		42.5	13.8	41.9	34.0	45.8	33.1	42.9	32.6	48.9	29.3
SE	.2	.9	.7	.1	*	.0		1.9	11.0	1.8	1.5	2.0	1.3	2.3	2.5	1.6	1.4
S	.1	*	.0	.0	.0	.0		.1	3.4	.0	.0	.0	.0	.1	.9	.0	.0
SW	.0	*	.0	.0	.0	.0		*	7.6	.0	.0	.0	.0	*	.3	.0	.0
W	.0	*	.0	.0	.0	.0		*	5.0	.0	.0	.0	.0	.1	.0	.0	.0
NW	.1	.1	.1	*	.0	.0		.3	9.0	.1	.0	.2	.0	.4	.8	.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.0	1.0	.0	.0	.0	.0	.0	.0
TOT OBS	65	849	1924	156	1	0	2995		13.5	669	103	525	120	691	190	592	105
TOT PCT	2.2	28.3	64.2	5.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	2.2	.7	.0	.0		3.7	11.0	4.0	2.9	3.4	4.3
NE	4.4	32.4	14.4	.1	.0		51.4	13.5	53.1	51.6	52.6	48.0
E	3.1	27.3	12.1	*	.0		42.5	13.8	40.9	43.4	40.7	45.9
SE	.6	1.0	.3	*	.0		1.9	11.0	1.7	1.9	2.4	1.6
S	.1	*	.0	.0	.0		.1	3.4	.0	.0	.3	.0
SW	*	*	.0	.0	.0		*	7.6	.0	.0	.1	.0
W	*	.0	.0	.0	.0		*	5.0	.0	.0	.1	.0
NW	.1	.1	*	.0	.0		.3	9.0	.1	.2	.5	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.1	.0	.0	.0
TOT OBS	276	1890	823	6	0	2995		13.5	772	645	881	697
TOT PCT	9.2	63.1	27.5	.2	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	1.8	34.5	58.2	5.4	.0	.0	13.0	100.0	772
06&09	.0	.9	25.9	68.7	4.5	.0	.0	13.8	100.0	645
12&15	.0	4.1	29.1	61.4	5.3	.1	.0	13.1	100.0	881
18&21	.0	1.1	23.0	70.4	5.5	.0	.0	14.2	100.0	697
TOT	1	64	849	1924	156	1	0	13.5		2995
PCT	*	2.1	28.3	64.2	5.2	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.8	.5	.3		3.8
NE	16.1	16.8	12.1	2.8		3.6
E	16.6	15.7	12.6	2.8		3.6
SE	.2	.5	.7	.2		4.9
S	.0	.0	.0	.0		.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.1	.1	.1	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	649	647	498	119	1913	3.6
TOT PCT	33.9	33.8	26.0	6.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.1	.4	*	.0	.0	.0	*	2.1	
NE	.1	.0	.3	1.6	3.5	1.5	.8	.1	.1	.1	39.7	
E	.1	.1	.4	1.7	3.3	1.8	.7	.1	.0	.1	39.4	
SE	.1	.0	.0	.1	.3	.1	.1	.0	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	5	1	14	67	144	66	30	4	2	5	1575	1913
TOT PCT	.3	.1	.7	3.5	7.5	3.5	1.6	.2	.1	.3	82.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	11.8	13.3	13.3	13.3	13.3	13.3	13.3	13.3
* OR >600	14.6	16.7	16.8	16.8	16.8	16.8	16.8	16.8
* OR >300	15.3	17.5	17.6	17.6	17.6	17.6	17.6	17.6
* OR >150	15.3	17.5	17.6	17.6	17.6	17.6	17.6	17.6
* OR > 0	15.4	17.7	17.8	17.8	17.9	17.9	17.9	17.9
TOTAL	295	338	341	341	342	342	342	342

TOTAL NUMBER OF OBS: 1914

PCT FREQ NH <5/8: 82.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.5	17.4	25.0	22.0	12.1	6.1	5.4	3.7	2.8	.1	2032

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

AREA 0001 GEORGETOWN
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.1	.0	*	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.2	*	.0	.0	.0	.1	.0	.0	.5	
1<2	PCP	*	*	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	.1	.1	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.8	.6	.2	.0	.0	.0	.0	.0	.0	1.7	
	TOT %	.1	.8	.6	.2	.0	.0	.0	.0	.0	.0	1.8	
5<10	PCP	*	.8	.5	.1	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.6	6.5	3.6	.2	.0	.0	.0	*	.0	.0	11.0	
	TOT %	.6	7.3	4.1	.3	.0	0	.0	*	.0	.0	12.4	
10+	PCP	.0	.6	.5	.1	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	2.6	41.0	38.9	1.0	.0	.0	.0	.2	.0	.0	83.7	
	TOT %	2.6	41.6	39.4	1.1	.0	.0	.0	.2	.0	.0	85.0	
	TOT OBS												2454
	TOT PCT	3.4	50.0	44.4	1.8	.1	.0	.0	.3	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.0	.1	.1	.0	.0	*	*	*	.0		.2	
	11-21	.0	.1	*	*	.0	.0	.0	.0	.0		.2	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	.3	.2	*	.0	*	*	.1	.0	.0	.7	
1<2	0-3	.0	*	*	.1	.1	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.1	*	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
2<5	0-3	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	*	.6	.4	.1	*	*	.0	.0	.0		1.2	
	11-21	.1	.3	.1	.1	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	1.0	.7	.3	*	*	.0	.0	.0	.0	2.1	
5<10	0-3	.0	.2	.1	*	.0	.0	.0	*	.0	.0	.4	
	4-10	.3	2.1	1.4	.1	.0	.0	.0	.0	.0		3.9	
	11-21	.3	4.7	2.5	.1	.0	.0	.0	.0	.0		7.6	
	22+	.0	.3	.3	.1	.0	.0	.0	.0	.0		.7	
	TOT %	.6	7.3	4.3	.3	.0	.0	.0	*	.0	.0	12.6	
10+	0-3	.1	.4	.3	.0	.0	.0	.0	*	.0	.0	.8	
	4-10	1.3	11.2	9.5	.6	.0	.0	.0	*	.0		22.7	
	11-21	1.2	28.2	26.8	.4	.0	.0	.0	.1	.0		56.7	
	22+	*	2.1	1.7	*	.0	.0	.0	*	.0		3.9	
	TOT %	2.7	41.9	38.3	1.1	.0	.0	.0	.2	.0	.0	84.1	
	TOT OBS												2668
	TOT PCT	3.6	50.6	43.6	1.8	.1	*	*	.3	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	.9	2.7	7.1	2.4	1.1	.0	.0	.2	15.1	84.9	449
06&09	.4	.0	.2	3.2	7.7	4.1	1.1	.2	.2	.0	17.1	82.9	468
12&15	.0	.0	1.0	4.9	8.3	3.6	2.2	.2	.2	.4	20.8	79.2	506
18&21	.2	.0	.7	2.6	6.6	3.1	1.6	.3	.0	.3	15.5	84.5	576
TOT	5	1	14	67	148	66	30	4	2	5	342	1657	1999
PCT	.3	.1	.7	3.4	7.4	3.3	1.5	.2	.1	.3	17.1	82.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.1	.8	3.9	14.0	80.3	659
06&09	.0	.2	.0	1.0	11.3	87.5	592
12&15	.1	1.0	.9	3.1	16.6	78.3	773
18&21	.0	.3	.0	.2	7.8	91.7	650
TOT	1	18	12	57	338	2248	2674
PCT	*	.7	.4	2.1	12.6	84.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	1.6	5.6	11.4	83.0	429
06&09	.4	.7	4.3	13.9	81.8	445
12&15	.0	1.0	6.8	15.5	77.7	485
18&21	.2	.9	3.6	12.4	84.0	555
TOT	5	20	96	255	1563	1914
PCT	.3	1.0	5.0	13.3	81.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	*	.0	.0	6	.3
85/89	.0	.0	.0	.1	1.0	.8	.0	.1	42	2.1
80/84	.0	.0	.0	.2	6.7	26.1	9.6	2.7	910	45.4
75/79	.0	.0	.0	.1	2.0	24.0	19.4	5.8	1027	51.3
70/74	.0	.0	.0	.0	.0	.1	.3	.5	18	.9
TOTAL	0	0	0	13	197	1023	587	183	2003	100.0
PCT	.0	.0	.0	.6	9.8	51.1	29.3	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.2	.0	.0	.0	.0	.0	.0	.0
*	1.1	.9	*	.0	.0	.0	.0	.0	.0
1.2	21.3	22.3	.5	.0	.0	.0	.2	.0	.0
1.6	26.1	22.1	1.2	*	.0	.0	.2	.0	.0
.0	.5	.2	.2	*	*	*	.0	.0	.0
2.8	49.1	45.7	2.0	.1	*	*	.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	81	79	77	75	72	79.0	769
06&09	86	82	80	78	76	74	71	78.3	640
12&15	89	86	83	80	76	74	72	79.7	872
18&21	92	89	86	81	78	76	74	81.0	689
TOT	92	86	83	79	77	74	71	79.5	2970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	5.2	50.2	35.5	8.9	80	496
06&09	.0	.2	3.1	48.9	38.4	9.4	80	448
12&15	.0	.4	7.7	51.8	27.4	12.8	79	570
18&21	.0	1.8	22.8	53.3	17.0	5.1	75	495
TOT	0	13	197	1027	588	184	79	2009

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.2	4	.0	.2
9/10	.0	.0	.0	.0	.1	.1	5	.0	.2
7/8	.0	.0	.0	.1	.5	.3	20	.0	.9
6	.0	.0	*	.3	.5	.0	18	.0	.8
5	.0	.0	.3	.5	.4	.0	27	.0	1.2
4	.0	.0	.2	1.4	.2	.0	39	.0	1.8
3	.0	.0	.4	2.1	.1	.0	57	*	2.5
2	.0	.1	1.3	4.2	.1	.0	127	.0	5.8
1	.0	.0	4.4	4.6	.1	.0	202	.0	9.2
0	.0	*	15.2	4.8	.0	.0	442	.2	19.8
-1	.0	*	17.2	2.8	*	.0	443	*	20.0
-2	.0	.2	13.4	1.4	.0	.0	374	.0	17.0
-3	*	.5	8.5	.5	.0	.0	208	.0	9.4
-4	.0	.9	4.8	*	.0	.0	127	.0	5.8
-5	.0	.5	1.6	.0	.0	.0	47	.0	2.1
-6	.0	.5	.8	.0	.0	.0	30	.0	1.4
-7/-8	.0	.9	.5	.0	.0	.0	29	.0	1.3
-9/-10	*	.2	*	.0	.0	.0	6	.0	.3
TOTAL	2		1557		48		7		2198
		85		500		13	2205		
PCT	.1	3.9	70.6	22.7	2.2	.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.2	.1	.1	.0	.0	.4
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.3	.1	.0	.0	1.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	4.1	2.9	.0	.0	.0	7.0
3-4	.0	5.5	9.5	.1	.0	.0	15.1
5-6	.0	1.0	11.3	.2	.0	.0	12.6
7	.0	.2	8.3	.7	.0	.0	9.2
8-9	.0	.1	4.3	.7	.0	.0	5.1
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.6	.0	.0	.0	.6
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.2	37.3	1.8	.0	.0	50.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	3.7	1.0	.0	.0	.0	4.8
3-4	.0	5.2	10.6	.3	.0	.0	16.1
5-6	.0	1.6	13.2	.6	.0	.0	15.4
7	.0	.3	5.2	.7	.0	.0	6.3
8-9	.0	.2	1.8	.5	.0	.0	2.5
10-11	.0	.0	.7	.2	.0	.0	.9
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	11.3	32.5	2.4	.0	.0	46.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.9	.2	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.1	8.4	4.1	.0	.0	.0	12.6	
3-4	.0	11.2	20.5	.6	.0	.0	32.3	
5-6	.0	2.9	24.7	.8	.0	.0	28.3	
7	.0	.6	14.0	1.4	.0	.0	15.9	
8-9	.0	.3	6.3	1.1	.0	.0	7.8	
10-11	.0	.0	.9	.6	.0	.0	1.5	
12	.0	.0	.6	.1	.0	.0	.7	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	24.0	71.3	4.6	.0	.0	100.0	872

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	4.1	14.1	8.4	3.9	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	353	4
6-7	.0	.8	6.7	12.5	7.5	3.3	2.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	580	6
8-9	.0	.2	.9	4.8	6.0	2.8	1.5	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	7
10-11	.0	.2	.3	.6	1.3	1.1	.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	8
12-13	.0	.0	.5	.5	.3	.1	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
>13	.0	.0	.0	.0	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDET	.2	1.4	2.5	1.9	1.5	.3	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	5
TOTAL	6	115	428	491	360	154	93	40	20	7	0	0	0	0	0	0	0	0	0	1714	6
PCT	.4	6.7	25.0	28.6	21.0	9.0	5.4	2.3	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1941-1975
(OVER-ALL) 1857-1975

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.1	1.3	.0	.0	.0	.0	.0	6.4	3.2	.0	.0	.0	1.9	.0		88.5
NE	1.3	1.7	.5	.0	.0	.0	.0	3.4	2.6	.0	1.7	.0	.8	.0		91.4
E	.9	1.6	.5	.0	.0	.0	.0	3.0	3.0	.0	.4	.0	1.2	.0		92.4
SE	3.0	3.0	.0	.0	.0	.0	.0	6.1	1.5	.0	.0	.0	.0	.0		92.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		75.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	44.4	.0	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	.0		55.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	1.3	1.6	.5	.0	.0	.0	.0	3.4	2.8	.0	1.0	.0	1.0	.0		91.8
TOT OBS:	2585															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	1.6	.6	.0	.0	.0	.0	3.9	2.0	.0	1.4	.0	.6	.0		92.0
06&09	.8	1.9	.7	.0	.0	.0	.0	3.4	3.3	.0	1.0	.0	.7	.0		91.4
12&15	1.9	1.6	.4	.0	.0	.0	.0	3.9	3.6	.0	1.2	.0	1.2	.0		90.0
18&21	.5	1.6	.2	.0	.0	.0	.0	2.2	1.9	.0	.6	.0	1.4	.0		94.0
TOT PCT	1.3	1.6	.5	.0	.0	.0	.0	3.4	2.8	.0	1.1	.0	1.0	.0		91.8
TOT OBS:	2616															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	1.4	1.5	.2	.0	.0		3.2	11.6	4.7	5.3	2.2	2.2	2.3	6.0	2.5	2.7
NE	.5	16.4	30.5	2.2	.0	.0		49.6	12.9	49.5	56.1	48.5	59.1	51.4	53.1	43.8	56.4
E	.2	13.4	29.8	1.6	.0	.0		45.0	13.4	43.6	35.7	47.2	36.5	44.5	36.4	52.4	36.8
SE	*	.6	.7	*	.0	.0		1.4	11.8	1.1	1.0	2.0	1.3	1.2	3.4	.9	2.3
S	.1	*	.0	.0	.0	.0		.1	4.0	.1	.0	.2	.0	.0	.0	.1	.0
SW	.1	.1	.0	.0	.0	.0		.1	5.6	.0	.0	.0	.0	.4	.5	*	.0
W	.0	.1	.0	.0	.0	.0		.1	8.0	.1	.0	.0	.0	.1	.0	.0	.0
NW	*	.1	*	.0	.0	.0		.1	9.7	.6	.0	.0	.0	.0	.0	*	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0	.3	1.9	.0	.9	.0	.5	.2	1.8
TOT OBS	42	997	1940	124	0	0	3103		13.0	689	103	558	115	717	191	620	110
TOT PCT	1.4	32.1	62.5	4.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	1.8	.7	.0	.0		3.2	11.6	4.8	2.2	3.1	2.6
NE	3.9	35.9	9.7	.1	.0		49.6	12.9	50.3	50.3	51.7	45.7
E	2.4	32.5	10.0	.1	.0		45.0	13.4	42.6	45.4	42.8	50.1
SE	.3	.8	.3	*	.0		1.4	11.8	1.1	1.9	1.7	1.1
S	.1	*	.0	.0	.0		.1	4.0	.1	.1	.0	.1
SW	.1	.1	.0	.0	.0		.1	5.6	.0	.0	.4	*
W	*	*	.0	.0	.0		.1	8.0	.1	.0	.1	.0
NW	.1	*	*	.0	.0		.1	9.7	.5	.0	.0	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.3						.3	.0	.5	.1	.1	.4
TOT OBS	244	2208	643	8	0	3103		13.0	792	673	908	730
TOT PCT	7.9	71.2	20.7	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1941-1975
(OVER-ALL) 1857-1975

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	1.1	33.7	60.7	3.9	.0	.0	12.7	100.0	792
06&09	.1	.3	31.8	64.6	3.1	.0	.0	13.0	100.0	673
12&15	.1	2.2	33.6	60.4	3.7	.0	.0	12.7	100.0	908
18&21	.4	.3	28.9	65.2	5.2	.0	.0	13.6	100.0	730
TOT	9	33	997	1940	124	0	0	13.0		3103
PCT	.3	1.1	32.1	62.5	4.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	.6	.3		4.0
NE	15.6	15.1	13.3	3.1		3.7
E	16.4	17.7	12.3	2.4		3.5
SE	.5	.3	.4	.1		3.7
S	.0	.1	*	.0		4.0
SW	.0	.0	.1	*		7.4
W	*	.0	.0	*		5.0
NW	*	*	.0	*		4.0
VAR	.0	.0	.0	.0		.0
CALM	*	.0	.0	.0		2.0
TOT OBS	691	699	551	126	2067	3.6
TOT PCT	33.4	33.8	26.7	6.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.3	.2	*	.0	.0	.0	1.7	
NE	.2	.1	.6	2.1	3.4	2.3	.5	.1	.0	.2	37.6	
E	.1	.1	.5	2.0	3.9	1.1	.6	*	*	*	40.4	
SE	.0	.0	.0	*	.1	*	.0	*	.0	.0	1.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
SW	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
NW	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT OBS	6	4	23	89	160	76	25	4	1	4	1675	2067
TOT PCT	.3	.2	1.1	4.3	7.7	3.7	1.2	.2	*	.2	81.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.3	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	4.7	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >1000	11.6	13.0	13.1	13.1	13.1	13.1	13.1	13.1
* OR >600	14.8	17.1	17.3	17.3	17.3	17.3	17.3	17.3
* OR >300	15.7	18.1	18.3	18.4	18.4	18.4	18.5	18.5
* OR >150	15.8	18.3	18.5	18.6	18.6	18.6	18.6	18.6
* OR > 0	16.0	18.6	18.7	18.9	18.9	18.9	18.9	18.9
TOTAL	331	384	388	391	391	391	392	392

TOTAL NUMBER OF OBS: 2070

PCT FREQ NH <5/8: 81.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	16.3	25.8	22.0	10.5	7.0	5.2	3.7	3.2	.1	2182

PERIOD: (PRIMARY) 1941-1975
(OVER-ALL) 1857-1975

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
	PCP	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.1	.1	.0	.0	.0	.0	*	.0	.0	.2	
2<5	NO PCP	.2	.8	.3	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.2	.9	.4	.0	.0	.0	.0	*	.0	.0	1.5	
	PCP	.1	.9	.5	.0	.0	.0	.0	.0	.0	.0	1.5	
5<10	NO PCP	.4	5.3	3.4	.1	*	.1	.0	.0	.0	.0	9.3	
	TOT %	.5	6.2	3.9	.1	*	.1	.0	.0	.0	.0	10.8	
	PCP	*	.4	.5	*	.0	.0	.0	.0	.0	.0	1.0	
10+	NO PCP	2.3	40.5	41.3	1.1	*	*	.1	*	.0	.1	85.4	
	TOT %	2.4	40.9	41.8	1.1	*	*	.1	*	.0	.1	86.4	
	TOT OBS												2575
	TOT PCT	3.0	48.9	46.3	1.3	.1	.2	.1	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.3	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	*	.5	.1	.0	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.2	.0	*	.0	.0	.0	*	.0		.3	
	11-21	.1	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	*	*	.0	.0	.0	*	.0	.0	.5	
	0-3	*	.1	*	.0	.0	.0	.0	*	.0	.0	.3	
2<5	4-10	.1	.5	.2	.0	.0	.0	.0	.0	.0		.7	
	11-21	*	.3	.3	.0	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.9	.5	.0	.0	.0	.0	*	.0	.0	1.6	
	0-3	*	.1	.1	.0	*	.1	.0	.0	.0	.0	.3	
5<10	4-10	.2	1.8	1.2	*	.0	*	.0	.0	.0		3.3	
	11-21	.2	3.7	2.2	*	.0	.0	.0	.0	.0		6.2	
	22+	*	.4	.4	.0	.0	.0	.0	.0	.0		.8	
	TOT %	.5	6.0	3.8	.1	*	.1	.0	.0	.0	.0	10.5	
	0-3	.1	.2	.1	*	*	.0	.0	.0	.0	.1	.5	
10+	4-10	1.0	12.7	12.3	.5	.0	*	.1	*	.0		26.6	
	11-21	1.1	25.5	28.4	.6	.0	.0	.0	*	.0		55.6	
	22+	.2	2.0	1.3	*	.0	.0	.0	.0	.0		3.6	
	TOT %	2.3	40.5	42.1	1.1	*	*	.1	.1	.0	.1	86.4	
	TOT OBS												2755
	TOT PCT	3.0	48.5	46.7	1.3	.1	.1	.1	.2	.0	.1	100.0	

PERIOD: (PRIMARY) 1941-1975
(OVER-ALL) 1857-1975

AREA 0001 GEORGETOWN
9,ON 57,4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.2	.4	3.0	5.8	4.0	1.4	.2	.0	.0	15.7	84.3	496
06&09	.0	.2	1.4	3.8	7.1	3.8	1.0	.4	.2	.2	18.0	82.0	506
12&15	.4	.2	1.4	4.9	9.2	3.2	1.3	.0	.0	.4	20.9	79.1	554
18&21	.2	.2	1.0	4.7	7.5	3.2	1.0	.2	.0	.2	18.0	82.0	600
TOT	6	4	23	89	161	76	25	4	1	4	393	1763	2156
PCT	.3	.2	1.1	4.1	7.5	3.5	1.2	.2	*	.2	18.2	81.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.3	1.0	3.0	12.5	82.2	695
06&09	.0	.6	.0	.3	9.5	89.5	621
12&15	.3	1.4	.8	2.1	13.4	82.1	792
18&21	.0	.4	.1	.4	8.7	90.3	678
TOT	2	27	14	43	311	2389	2786
PCT	.1	1.0	.5	1.5	11.2	85.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.3	4.4	11.9	83.8	480
06&09	.0	1.7	5.8	13.3	80.9	481
12&15	.4	2.3	7.3	14.5	78.2	531
18&21	.2	1.4	6.1	12.5	81.5	578
TOT	6	34	123	270	1677	2070
PCT	.3	1.6	5.9	13.0	81.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	*	.0	.0	9	.4
85/89	.0	.0	.0	.2	1.1	1.3	.2	.2	63	3.1
80/84	.0	.0	.0	.3	7.7	25.8	12.4	3.2	1020	49.4
75/79	.0	.0	.0	.1	1.2	23.3	15.6	6.2	956	46.3
70/74	.0	.0	.0	.0	*	*	.1	.4	14	.7
65/69	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	0	14	215	1041	586	207	2063	100.0
PCT	.0	.0	.0	.7	10.4	50.5	28.4	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
.1	1.5	1.4	*	.0	*	.0	.0	.0	.0
1.1	23.2	24.4	.5	.1	.1	.0	*	.0	.0
2.1	23.2	20.2	.6	.0	*	.1	.1	.0	.0
*	.3	.4	.0	.0	.0	.0	.0	.0	.0
.0	*	*	.0	.0	.0	.0	.0	.0	.0
3.3	48.4	46.7	1.1	.1	.2	.1	.1	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	83	82	79	77	75	73	79.1	788
06&09	84	82	81	79	76	74	69	78.4	673
12&15	90	86	83	80	77	74	68	80.0	907
18&21	93	90	86	81	78	76	72	81.7	727
TOT	93	87	84	80	77	75	68	79.9	3095

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	5.8	52.1	30.4	11.5	80	503
06&09	.0	.2	3.2	49.0	36.6	11.0	80	465
12&15	.0	.2	10.1	48.5	28.7	12.6	79	596
18&21	.0	2.2	29.2	53.0	18.1	4.5	75	509
TOT	0	14	217	1049	586	207	78	2073

PERIOD: (PRIMARY) 1941-1975
(OVER-ALL) 1857-1975

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	.2	*	7	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.3	.0	14	*	.6
7/8	.0	.0	.0	*	.1	.4	.2	.0	18	*	.7
6	.0	.0	.0	.1	.1	.3	.0	.0	11	*	.4
5	.0	.0	.0	.1	.6	.7	*	.0	32	.0	1.4
4	.0	.0	.0	.4	1.6	.6	*	.0	64	.0	2.7
3	.0	.0	.0	.2	2.8	.3	.0	.0	77	*	3.2
2	.0	.0	.0	1.0	4.6	.1	.0	.0	135	*	5.7
1	.0	.0	*	3.7	6.4	.2	.0	.0	244	.1	10.3
0	.0	.0	.1	12.1	6.5	*	.0	.0	440	.3	18.4
-1	.0	.0	.1	16.6	3.7	.0	.0	.0	483	.3	20.2
-2	.0	.0	.5	13.5	1.8	.0	.0	.0	370	.1	15.6
-3	.0	.0	.2	7.8	.6	.0	.0	.0	202	.0	8.6
-4	.0	.0	.8	4.2	.5	.0	.0	.0	132	.0	5.6
-5	.0	.0	.5	2.0	.3	.0	.0	.0	65	.0	2.8
-6	.0	.0	.4	.7	.0	.0	.0	.0	27	.0	1.1
-7/-8	.0	*	.5	.3	.0	.0	.0	.0	21	.0	.9
-9/-10	.0	.1	.3	.2	.0	.0	.0	.0	12	.0	.5
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		81		698		20			22	2333
		3		1483		68		1	2355		
PCT	*	.1	3.4	63.0	29.6	2.9	.8	*	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.3	.0	.0	.0	.7
3-4	.0	.3	.4	.0	.0	.0	.7
5-6	.0	.4	.5	.2	.0	.0	1.0
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.2	.4	.0	.0	2.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	*	6.7	3.7	.0	.0	.0	10.4
3-4	.0	6.1	11.6	.2	.0	.0	17.9
5-6	.0	2.2	9.5	.9	.0	.0	12.6
7	.0	*	5.0	.6	.0	.0	5.6
8-9	.0	.0	.9	.3	.0	.0	1.2
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	15.3	30.9	2.0	.0	.0	48.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.2	5.1	3.3	.0	.0	.0	8.6
3-4	.0	6.9	9.0	.3	.0	.0	16.2
5-6	.0	2.3	10.7	.5	.0	.0	13.5
7	.0	.7	5.6	.3	.0	.0	6.6
8-9	.0	.1	1.6	.1	.0	.0	1.8
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	15.4	30.5	1.3	.0	.0	47.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.1	.0	.0	.0	.1
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.6	.0	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1975

MARCH

TABLE 18 (CONT)

AREA 0001 GEORGETOWN
9.0N 57.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.0	.0	.0	.0	.0	.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	*	.0	.0	.0	*	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.0	.0	.0	.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.2	.7	.1	.0	.0	.0	1.0	
1-2	.3	12.4	7.3	.0	.0	.0	20.1	
3-4	.0	13.5	21.0	.6	.0	.0	35.1	
5-6	.0	4.9	20.8	1.6	.0	.0	27.3	
7	.0	.7	11.0	1.1	.0	.0	12.8	
8-9	.0	.1	2.5	.3	.0	.0	3.0	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	32.3	63.3	3.8	.0	.0	100.0	872

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	5.8	14.3	11.0	5.3	1.3	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	700	4
6-7	.0	.9	7.1	15.1	7.6	2.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	618	5
8-9	.0	.3	1.8	3.8	5.5	3.0	2.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	321	7
10-11	.0	.3	.4	.9	.2	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	6
12-13	.0	.0	.2	.3	.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
>13	.0	.0	.0	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
INDET	.3	.9	1.4	1.2	.8	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
TOTAL	13	149	459	595	359	148	78	17	6	2	0	0	0	0	0	0	0	0	0	1826	5
PCT	.7	8.2	25.1	32.6	19.7	8.1	4.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	3.4		.0	94.9
NE	1.1	1.1	.2	.0	.0	.0	.0	2.4	2.0	*	1.0	.0	.3		.0	94.3
E	.8	1.7	.7	.0	.0	.0	.0	3.1	2.0	.1	1.0	.0	.3		.0	93.6
SE	.0	3.7	.3	.0	.0	.0	.0	4.0	5.6	.0	.0	.0	.0		.0	90.4
S	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
SW	.0	36.4	.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0		.0	63.6
W	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		.0	75.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0		.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.9	1.5	.5	.0	.0	.0	.0	2.9	2.1	.1	.9	.0	.4		.0	93.7
TOT OBS:	2282															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	.7	1.3	.4	.0	.0	.0	.0	2.4	1.6	.0	.7	.0	.5		.0	94.8
06&09	.8	1.9	.2	.0	.0	.0	.0	2.9	2.9	.4	.6	.0	.2		.0	93.2
12&15	1.4	1.8	.6	.0	.0	.0	.0	3.6	1.7	.0	1.4	.0	.5		.0	92.9
18&21	.7	1.2	.7	.0	.0	.0	.0	2.5	2.4	.0	.8	.0	.2		.0	94.1
TOT PCT	.9	1.5	.5	.0	.0	.0	.0	2.9	2.1	.1	.9	.0	.3		.0	93.7
TOT OBS:	2287															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	1.6	.8	.1	.0	.0		2.6	9.9	3.0	3.7	2.5	6.1	1.6	2.8	1.9	3.8
NE	.8	15.9	19.7	.5	.0	.0		36.9	11.7	37.7	46.5	35.9	45.6	35.4	39.6	33.0	40.7
E	.9	19.8	33.8	1.2	.0	.0		55.6	12.5	55.4	47.7	57.6	45.0	57.4	50.2	59.6	48.2
SE	.1	1.9	1.8	.1	.0	.0		3.9	11.2	3.4	2.0	3.4	2.4	4.4	5.8	4.0	5.8
S	*	.3	.1	.0	.0	.0		.4	8.0	.1	.0	.4	.9	.5	1.0	.3	.4
SW	*	.1	.0	.0	.0	.0		.1	6.4	.0	.0	.0	.0	.2	.0	.4	.0
W	.0	.1	.0	.0	.0	.0		.1	6.3	.0	.0	.0	.0	.2	.0	.4	.0
NW	.0	.1	.0	.0	.0	.0		.1	8.0	.2	.0	.0	.0	.1	.0	*	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0	.3	.0	.2	.0	.2	.5	.4	.8
TOT OBS	64	1136	1607	51	0	0	2858		12.0	637	122	459	114	638	202	560	126
TOT PCT	2.2	39.7	56.2	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	1.6	.2	.0	.0		2.6	9.9	3.1	3.2	1.9	2.2
NE	5.1	26.3	5.5	*	.0		36.9	11.7	39.1	37.8	36.4	34.4
E	5.2	41.0	9.3	*	.0		55.6	12.5	54.2	55.1	55.7	57.5
SE	.8	2.5	.5	*	.0		3.9	11.2	3.2	3.2	4.7	4.3
S	.1	.2	*	.0	.0		.4	8.0	.1	.5	.6	.3
SW	.1	.1	.0	.0	.0		.1	6.4	.0	.0	.1	.4
W	.1	*	.0	.0	.0		.1	6.3	.0	.0	.2	.4
NW	*	.1	.0	.0	.0		.1	8.0	.1	.0	.1	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.3						.3	.0	.3	.2	.2	.4
TOT OBS	355	2053	448	2	0	2858		12.0	759	573	840	686
TOT PCT	12.4	71.8	15.7	.1	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
6.9N 57.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	1.3	41.5	55.3	1.6	.0	.0	11.9	100.0	759
06&09	.2	.7	42.9	53.2	3.0	.0	.0	12.2	100.0	573
12&15	.2	4.4	40.7	53.0	1.7	.0	.0	11.6	100.0	840
18&21	.4	.7	34.0	63.7	1.2	.0	.0	12.5	100.0	686
TOT	8	56	1136	1607	51	0	0	12.0		2858
PCT	.3	2.0	39.7	56.2	1.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.7	.7	.1		3.9
NE	11.0	11.2	10.5	2.6		3.9
E	17.0	18.5	18.7	4.1		3.9
SE	.5	.9	1.2	.7		5.0
S	.0	.1	.2	.0		5.2
SW	.0	.1	.1	.0		5.7
W	.0	.0	.1	.1		7.0
NW	.0	.0	.0	.1		8.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.2	.1	.0		4.0
TOT OBS	522	565	565	136	1788	3.9
TOT PCT	29.2	31.6	31.6	7.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	*	.1	.0	.1	.1	.0	.0	1.7	
NE	.1	.1	.3	1.9	2.2	1.3	.9	.2	.1	.0	28.8	
E	.1	.1	.3	3.6	4.6	2.5	.7	.1	.2	.1	46.0	
SE	.0	.0	.0	.2	.4	.3	.0	.0	.0	.0	2.4	
S	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
SW	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	.1	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	*	.0	.1	.0	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
TOT OBS	4	3	13	106	135	75	19	6	5	2	1420	1788
TOT PCT	.2	.2	.7	5.9	7.6	4.2	1.1	.3	.3	.1	79.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >9000	.6	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
* OR >1000	11.8	13.4	13.5	13.6	13.6	13.6	13.6	13.6
* OR >600	16.5	19.3	19.4	19.5	19.5	19.5	19.5	19.5
* OR >300	17.0	20.0	20.0	20.1	20.1	20.2	20.2	20.2
* OR >150	17.1	20.1	20.2	20.3	20.3	20.4	20.4	20.4
* OR > 0	17.2	20.3	20.4	20.5	20.5	20.6	20.6	20.6
TOTAL	308	362	365	367	367	368	368	368

TOTAL NUMBER OF OBS: 1787

PCT FREQ NH <5/8: 79.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.1	16.7	24.3	21.0	12.2	7.3	5.8	4.2	3.3	.1	1881

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.3	.7	.0	.0	.0	.0	.0	.0	.0	1.0	
	PCP	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	NO PCP	*	.5	.6	.1	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	*	.6	.7	.1	.0	.0	.0	.0	.0	.0	1.4	
	PCP	.0	.3	.9	.1	*	.0	.0	.0	.0	.0	1.3	
5<10	NO PCP	.1	6.0	5.8	.4	.0	.0	.0	.0	.0	.0	12.3	
	TOT %	.1	6.3	6.7	.4	*	.0	.0	.0	.0	.0	13.7	
	PCP	.0	.2	.6	*	.0	*	*	.0	.0	.0	1.0	
10+	NO PCP	1.8	28.9	48.5	2.9	.2	.1	.1	.1	.0	.2	82.7	
	TOT %	1.8	29.1	49.1	2.9	.2	.1	.2	.1	.0	.2	83.6	
	TOT OBS												2278
	TOT PCT	1.9	36.5	57.2	3.5	.3	.1	.2	.1	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.2	.5	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.9	
	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.4	.2	*	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.3	*	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.4	
2<5	4-10	.0	.4	.3	.1	.0	.0	.0	.0	.0		.8	
	11-21	*	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.6	.7	.1	.0	.0	.0	.0	.0	.0	1.5	
	0-3	.0	.3	.3	*	.0	.0	.0	.0	.0	.0	.6	
5<10	4-10	.1	3.0	2.8	.4	.0	.0	.0	.0	.0		6.2	
	11-21	.1	2.7	3.3	.1	*	.0	.0	.0	.0		6.2	
	22+	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.2	6.2	6.6	.5	*	.0	.0	.0	.0	.0	13.4	
	0-3	*	.5	.4	.1	*	*	.0	.0	.0	.2	1.2	
10+	4-10	1.2	11.9	15.7	1.3	.2	.1	.2	.1	.0		30.7	
	11-21	.5	16.4	31.7	1.5	.0	.0	.0	.0	.0		50.1	
	22+	*	.4	1.0	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	1.8	29.2	48.7	2.9	.3	.2	.2	.1	.0	.2	83.4	
	TOT OBS												2421
	TOT PCT	2.0	36.6	56.9	3.5	.3	.2	.2	.1	.0	.2	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	.9	3.0	5.0	3.2	1.1	.0	.5	.2	14.4	85.6	438
06&09	.2	.0	.2	5.3	8.1	4.8	1.7	.2	.2	.2	21.0	79.0	419
12&15	.2	.2	.9	7.3	7.9	5.1	.4	.6	.2	.0	22.9	77.1	467
18&21	.2	.2	.7	6.9	7.8	3.2	.9	.4	.2	.2	20.7	79.3	536
TOT	4	3	13	106	135	75	19	6	5	3	369	1491	1860
PCT	.2	.2	.7	5.7	7.3	4.0	1.0	.3	.3	.2	19.8	80.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.7	1.8	2.0	15.9	79.6	609
06&09	.0	.6	.0	.4	10.7	88.3	506
12&15	.4	1.4	.7	2.7	18.0	76.7	701
18&21	.0	.8	.0	.5	8.0	90.7	610
TOT	3	22	16	36	326	2023	2426
PCT	.1	.9	.7	1.5	13.4	83.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.4	4.8	10.6	84.6	416
06&09	.2	.5	6.0	15.9	78.1	402
12&15	.2	1.6	10.0	14.2	75.8	450
18&21	.2	1.0	8.3	13.1	78.6	519
TOT	4	20	132	240	1415	1787
PCT	.2	1.1	7.4	13.4	79.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
90/94	.0	.0	.0	.0	.4	.1	.1	.1	11	.6
85/89	.0	.0	.0	.5	1.7	2.3	.7	.3	98	5.4
80/84	.0	.0	.0	.3	7.2	34.7	20.7	4.4	1211	67.3
75/79	.0	.0	.0	.0	.7	9.9	11.5	4.2	473	26.3
70/74	.0	.0	.0	.0	.0	.1	.1	.2	5	.3
TOTAL	0	0	0	15	178	848	594	164	1799	100.0
PCT	.0	.0	.0	.8	9.9	47.1	33.0	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
*	.2	.3	.0	.0	.0	.0	.0	.0	.1
.1	1.4	3.5	.4	.1	.0	.0	.0	.0	.0
1.2	23.8	40.1	1.9	.1	.1	.1	.0	.0	.0
.7	10.5	13.4	1.3	.2	.1	.1	.1	.0	.0
.0	.1	*	.1	.0	.0	*	*	.0	.0
2.1	35.9	57.4	3.7	.3	.2	.2	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	84	82	80	77	75	73	79.9	743
06&09	88	83	82	79	77	74	73	79.3	566
12&15	89	88	84	81	77	76	74	80.9	828
18&21	96	91	88	82	79	77	73	82.6	677
TOT	96	88	85	80	77	75	73	80.7	2814

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.8	50.9	36.3	9.7	80	432
06&09	.0	.5	4.1	40.1	43.9	11.4	81	387
12&15	.0	1.1	10.3	45.9	31.7	10.9	79	523
18&21	.0	1.3	20.9	50.9	22.2	4.8	76	460
TOT	0	15	178	849	595	165	79	1802

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

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8.9N 57.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.1	*	4	.0	.2
9/10	.0	.0	*	*	.4	.0	10	.0	.3
7/8	.0	.0	.3	.6	.4	.0	28	.0	1.4
6	.0	*	.2	.6	*	.0	19	.0	.9
5	.0	.1	.4	1.3	*	.0	37	.0	1.8
4	.0	.1	1.2	1.2	.0	.0	51	.0	2.5
3	.0	*	2.3	.7	.0	.0	63	.0	3.1
2	.0	.6	5.2	.8	*	.0	135	*	6.7
1	.0	1.5	8.1	.1	.0	.0	198	*	9.8
0	.0	8.0	11.1	*	.0	.0	387	.4	18.8
-1	.0	9.9	6.9	.0	.0	.0	339	.2	16.6
-2	.1	11.1	4.5	.0	.0	.0	317	.1	15.6
-3	.2	6.7	1.4	*	.0	.0	170	*	8.4
-4	.1	4.7	1.0	.0	.0	.0	117	*	5.8
-5	.5	2.6	.7	.0	.0	.0	78	.0	3.9
-6	.3	1.1	.1	.0	.0	.0	31	.0	1.5
-7/-8	.3	.6	*	.0	.0	.0	20	.0	1.0
-9/-10	.1	.2	.0	.0	.0	.0	7	.0	.3
-11/-13	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	35	957	883	114	22	2	2013	19	1994
PCT	1.7	47.5	43.9	5.7	1.1	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.3	.2	.0	.0	.0	.6
3-4	.0	.5	.1	.0	.0	.0	.6
5-6	.0	.2	.0	.1	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.3	.1	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.1	.0	.0	.0	1.9
1-2	.0	5.1	2.0	.0	.0	.0	7.1
3-4	.0	4.6	7.0	.1	.0	.0	11.7
5-6	.0	2.1	9.6	*	.0	.0	11.8
7	.1	.5	3.4	.4	.0	.0	4.4
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	14.1	22.3	.6	.0	.0	37.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.2	6.9	3.7	.0	.0	.0	10.9
3-4	.0	7.6	12.6	.0	.0	.0	20.2
5-6	.0	1.7	14.1	.1	.0	.0	15.9
7	.0	1.1	4.6	.2	.0	.0	6.0
8-9	.0	.4	1.5	.0	.0	.0	1.9
10-11	.0	.1	.1	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	18.4	36.7	.5	.0	.0	55.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	*	.5	.4	.0	.0	.0	.9
3-4	.0	.6	1.0	.0	.0	.0	1.7
5-6	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.4	2.1	.1	.0	.0	3.7

PERIOD: (OVER-ALL) 1963-1974

APRIL

TABLE 18 (CONT)

AREA 0001 GEORGETOWN
8.9N 57.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	*	.0	.0	.0	.0	*	
3-4	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.0	.0	.0	.0	.1	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.5	2.7	.1	.0	.0	.0	3.3	
1-2	.3	13.4	6.4	.0	.0	.0	20.1	
3-4	.0	13.8	20.7	.1	.0	.0	34.7	
5-6	.0	4.2	24.0	.3	.0	.0	28.6	
7	.1	1.6	8.1	.8	.0	.0	10.6	
8-9	.0	.4	1.9	.0	.0	.0	2.3	
10-11	.0	.1	.3	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	36.3	61.5	1.3	.0	.0	100.0	753

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	8.2	17.9	12.0	3.3	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	671	4
6-7	.0	1.0	9.2	14.6	6.8	1.8	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	528	5
8-9	.0	.1	1.2	6.1	4.8	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	6
10-11	.0	.3	.1	.5	.4	.3	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.0	.3	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
INDET	.8	.5	1.2	.7	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	4
TOTAL	28	155	495	529	245	73	30	15	5	1	0	0	0	0	0	0	0	0	0	1536	5
PCT	1.8	10.1	29.6	34.4	16.0	4.8	2.0	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
6.9N 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0		.0	98.3
NE	2.5	1.3	.7	.0	.0	.0	.0	4.3	2.2	.1	.1	.0	1.2		.0	92.0
E	2.2	2.4	.8	.0	.0	.0	.0	5.3	3.4	.0	.5	.0	.8		.1	89.9
SE	5.3	4.2	2.3	.0	.0	.0	.0	11.8	2.7	.0	.2	.0	.0		.0	85.3
S	15.6	15.6	.0	.0	.0	.0	.0	31.1	.0	.0	.0	.0	.0		.0	68.9
SW	19.6	.0	.0	.0	.0	.0	.0	19.6	.0	.0	.0	.0	.0		.0	80.4
W	57.1	.0	42.9	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0		.0	.0
NW	40.0	.0	10.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.6	2.2	.9	.0	.0	.0	.0	5.6	2.9	*	.4	.0	.9		*	90.2
TOT OBS:	2482															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	2.3	1.2	.0	.0	.0	.0	5.7	3.5	.2	.7	.0	.3		.2	89.5
06&09	2.4	3.2	.9	.0	.0	.0	.0	6.4	2.6	.0	.2	.0	.9		.0	89.8
12&15	3.2	2.2	.7	.0	.0	.0	.0	6.0	2.4	.0	.4	.0	.7		.0	90.5
18&21	2.5	1.2	.8	.0	.0	.0	.0	4.3	3.2	.0	.2	.0	1.5		.0	90.7
TOT PCT	2.6	2.2	.9	.0	.0	.0	.0	5.6	2.9	*	.4	.0	.9		*	90.2
TOT OBS:	2493															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.7	.4	.1	.0	.0		1.3	10.3	1.3	1.7	1.1	.3	1.2	2.5	.9	2.1
NE	1.7	11.6	17.8	.8	.0	.0		31.9	12.0	33.7	36.0	33.6	38.1	30.6	32.4	26.7	34.0
E	1.1	18.9	37.1	2.6	.0	.0		59.8	13.3	59.2	56.3	61.2	52.0	60.9	48.7	66.8	51.1
SE	.5	2.8	2.2	*	.0	.0		5.6	10.3	4.8	5.2	3.7	7.8	5.2	10.2	4.9	11.7
S	.1	.2	.2	*	.0	.0		.6	8.8	.1	.7	.0	1.0	.9	2.1	.4	.7
SW	.3	.2	*	.0	.0	.0		.5	4.1	.4	.0	.4	.7	.9	1.4	.2	.4
W	.0	.1	.0	.0	.0	.0		.1	5.0	.1	.0	.0	.0	.1	.4	.0	.0
NW	.1	*	.0	*	.0	.0		.1	4.6	.1	.0	.0	.0	.0	.9	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.3	.0	.0	.0	.1	1.3	.2	.0
TOT OBS	134	1111	1862	115	0	0	3222		12.6	704	143	506	147	742	226	613	141
TOT PCT	4.2	34.5	57.8	3.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.6	.2	.0	.0		1.3	10.3	1.4	.9	1.5	1.1
NE	4.3	22.0	5.6	*	.0		31.9	12.0	34.1	34.6	31.0	28.1
E	4.7	40.2	14.6	.2	.0		59.8	13.3	58.7	59.1	58.1	63.8
SE	1.3	3.7	.6	.0	.0		5.6	10.3	4.9	4.6	6.4	6.2
S	.2	.3	*	.0	.0		.6	8.8	.2	.2	1.2	.5
SW	.5	.1	.0	.0	.0		.5	4.1	.4	.5	1.0	.2
W	.1	.0	.0	.0	.0		.1	5.0	.1	.0	.2	.0
NW	.1	.0	*	.0	.0		.1	4.6	.1	.0	.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.2	.0	.4	.1
TOT OBS	380	2153	681	8	0	3222		12.6	847	653	968	754
TOT PCT	11.8	66.8	21.1	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.2	4.5	36.8	55.0	3.4	.0	.0	12.3	100.0	847
06&09	.0	1.4	36.3	58.7	3.7	.0	.0	12.8	100.0	653
12&15	.4	7.4	33.8	55.2	3.2	.0	.0	12.0	100.0	968
18&21	.1	1.1	31.2	63.5	4.1	.0	.0	13.3	100.0	754
TOT	7	127	1111	1862	115	0	0	12.6		3222
PCT	.2	3.9	34.5	57.8	3.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.5	.3	.1		3.6
NE	9.7	8.2	8.6	3.0		3.9
E	17.5	19.9	20.8	6.6		4.1
SE	1.1	.9	1.4	.7		4.6
S	.0	*	.1	.1		6.9
SW	.1	.1	.1	.0		4.0
W	.0	.0	.0	.0		.0
NW	.0	*	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.0	.0		3.0
TOT OBS	573	593	621	211	1998	4.1
TOT PCT	28.7	29.7	31.1	10.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.0	*	.0	.0	.0	.9	
NE	.2	.1	.2	1.5	2.6	1.2	.4	.0	.0	.0	23.4	
E	.1	.1	.6	3.2	5.9	2.7	1.6	.1	.1	.0	50.5	
SE	.0	*	.1	.3	.4	.2	*	.1	.0	.0	2.9	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
TOT OBS	5	4	17	103	182	82	40	2	2	0	1561	1998
TOT PCT	.3	.2	.9	5.2	9.1	4.1	2.0	.1	.1	.0	78.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.1	.2	.2	.2	.2	.2	.2	.2
* OR >3500	1.6	2.1	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	4.9	6.1	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	11.9	14.7	15.3	15.3	15.3	15.4	15.4	15.4
* OR >600	15.5	19.5	20.3	20.3	20.4	20.4	20.4	20.4
* OR >300	16.2	20.3	21.1	21.2	21.2	21.3	21.3	21.3
* OR >150	16.4	20.5	21.3	21.4	21.4	21.5	21.5	21.5
* OR > 0	16.5	20.7	21.5	21.6	21.7	21.7	21.7	21.7
TOTAL	329	413	430	432	433	434	434	434

TOTAL NUMBER OF OBS: 1997

PCT FREQ NH <5/8: 78.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	14.4	23.7	22.0	13.0	7.2	6.6	3.5	5.1 .1	2073

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.0	.0	.0	*	*	.0	.0	.2	
1<2	PCP	.0	.1	.1	*	.0	*	*	.0	.0	.0	.3	
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.1	.2	*	.0	*	*	.0	.0	.0	.4	
2<5	PCP	.0	.4	.3	.1	.1	*	.0	.0	.0	.0	.8	
	NO PCP	.0	.5	.6	.2	.1	.1	.0	.0	.0	.0	1.5	
	TOT %	.0	.9	.9	.2	.2	.1	.0	.0	.0	.0	2.3	
5<10	PCP	*	.6	1.4	.2	*	*	.0	*	.0	.0	2.4	
	NO PCP	.2	4.3	6.3	.7	.1	*	.0	*	.0	.0	11.6	
	TOT %	.2	4.9	7.7	1.0	.1	.1	.0	.1	.0	.0	14.0	
10+	PCP	.0	.2	1.4	.1	*	.0	.0	.0	.0	.0	1.8	
	NO PCP	1.0	24.2	52.1	3.4	.2	.2	.0	*	.0	.2	81.2	
	TOT %	1.0	24.4	53.5	3.5	.2	.2	.0	*	.0	.2	83.0	
	TOT OBS												2473
	TOT PCT	1.2	30.3	62.5	4.7	.5	.5	.1	.1	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	*	.0		.1	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.0	*	.1	*	.0	.0	.3	
1<2	0-3	.0	.2	.2	.1	.0	.1	.0	.0	.0	.0	.6	
	4-10	.0	.1	.1	*	.0	*	*	.0	.0		.3	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.4	.1	.0	.1	*	.0	.0	.0	1.1	
2<5	0-3	.0	.2	.3	.1	.1	.1	.0	.0	.0	.0	.8	
	4-10	.0	.6	.4	.1	.1	*	.0	.0	.0		1.1	
	11-21	.0	.1	.1	.0	*	.0	.0	.0	.0		.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.9	.9	.2	.1	.1	.0	.0	.0	.0	2.4	
5<10	0-3	*	.4	.2	.1	*	.1	.0	.1	.0	.0	.9	
	4-10	.1	1.4	2.3	.4	.1	.0	.0	.0	.0		4.2	
	11-21	.1	2.8	4.6	.4	.0	.0	.0	.0	.0		7.9	
	22+	.0	.1	.4	*	.0	.0	.0	.0	.0		.5	
	TOT %	.2	4.7	7.4	.9	.1	.1	.0	.1	.0	.0	13.5	
10+	0-3	.1	1.0	.4	.2	*	*	.0	.0	.0	.2	2.0	
	4-10	.6	8.4	15.2	1.8	.1	.2	.0	.0	.0		26.2	
	11-21	.2	14.4	34.9	1.9	.2	.0	.0	.0	.0		51.6	
	22+	*	.6	2.2	*	.0	.0	.0	*	.0		2.8	
	TOT %	.9	24.4	52.7	3.9	.3	.2	.0	*	.0	.2	82.6	
	TOT OBS												2719
	TOT PCT	1.1	30.5	61.7	5.2	.5	.6	.1	.1	.0	.2	100.0	

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.0	.9	4.5	9.5	3.2	2.4	.2	.0	.0	21.0	79.0	463
06&09	.0	.4	.7	6.0	9.7	2.7	1.3	.0	.0	.0	20.8	79.2	452
12&15	.6	.4	1.3	5.2	6.9	4.5	2.2	.0	.2	.0	21.3	78.7	535
18&21	.2	.0	.5	4.5	9.7	5.2	1.8	.2	.2	.0	22.4	77.6	595
TOT	5	4	17	103	183	82	40	2	2	0	438	1607	2045
PCT	.2	.2	.8	5.0	8.9	4.0	2.0	.1	.1	.0	21.4	78.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.4	.9	4.0	14.4	80.2	672
06&09	.0	.0	.2	1.1	11.7	87.0	571
12&15	.4	.5	2.6	3.1	15.6	77.8	806
18&21	.1	.0	.3	.9	11.5	87.2	681
TOT	4	7	30	64	368	2257	2730
PCT	.1	.3	1.1	2.3	13.5	82.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.1	6.4	14.7	78.9	455
06&09	.0	1.1	7.4	13.6	79.1	435
12&15	.6	2.5	8.8	13.2	78.0	523
18&21	.2	.9	6.0	16.8	77.2	584
TOT	5	28	142	293	1562	1997
PCT	.3	1.4	7.1	14.7	78.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.3	.0	.0	14	.7
85/89	.0	.0	.0	.1	2.2	3.6	.8	.4	144	7.2
80/84	.0	.0	.0	.2	4.0	34.4	30.2	5.9	1495	74.7
75/79	.0	.0	.0	.0	.2	2.8	7.1	6.8	341	17.0
70/74	.0	.0	.0	.0	.0	.0	.1	.2	7	.3
TOTAL	0	0	0	8	135	825	767	266	2001	100.0
PCT	.0	.0	.0	.4	6.7	41.2	38.3	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.4	.0	.0	.0	.0	.0	.0	.0
.1	2.0	4.5	.4	.1	.0	.0	*	.0	*
.7	22.6	48.3	2.5	.2	.4	.0	*	.0	.1
.4	5.5	9.1	1.3	.2	.3	.1	*	.0	*
*	.1	*	.1	*	.1	.0	.0	.0	.0
1.2	30.5	62.4	4.3	.5	.7	.1	.1	.0	.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	83	81	77	75	72	80.4	823
06&09	88	84	82	80	78	75	74	80.0	638
12&15	91	87	85	81	77	76	73	81.4	947
18&21	92	90	87	82	78	76	74	82.7	742
TOT	92	88	85	81	78	75	72	81.2	3150

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	3.1	39.3	40.7	16.7	82	486
06&09	.0	.2	2.1	35.1	49.8	12.8	82	422
12&15	.0	.5	5.2	41.2	36.3	16.7	81	592
18&21	.0	.6	16.4	47.9	28.4	6.7	77	511
TOT	0	8	139	828	768	268	80	2011

MAY

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	.0	.0	.1	.2	6	.0	.3
7/8	.0	.0	*	.1	.5	.6	27	.0	1.2
6	.0	.0	.0	.1	.5	.2	18	.0	.8
5	.0	.0	.0	.5	.9	.2	36	.0	1.6
4	.0	.0	.1	.9	1.3	.0	49	.0	2.2
3	.0	.0	.1	1.9	1.4	.0	76	.0	3.4
2	.0	.0	.3	6.9	1.2	.0	186	.0	8.4
1	.0	.0	1.1	8.7	.5	.0	229	*	10.3
0	.0	*	4.1	15.7	.3	.0	445	.1	20.0
-1	.0	.0	5.3	11.7	*	.0	377	.2	16.8
-2	.0	*	8.5	6.4	.1	.0	332	*	15.0
-3	.0	.0	6.6	2.3	*	.0	198	.0	8.9
-4	.0	.1	3.7	.9	*	.0	106	.0	4.8
-5	.0	.1	2.4	.5	.0	.0	67	.0	3.0
-6	.0	.3	.8	*	.0	.0	26	.0	1.2
-7/-8	.0	.6	.6	.0	.0	.0	27	.0	1.2
-9/-10	*	.1	*	.0	.0	.0	5	.0	.2
TOTAL	1	31	748	1252	154	27	2213	9	2204
PCT	*	1.4	33.8	56.6	7.0	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.1	.0	.0	.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	*	.0	.0	.0	.5
1-2	.0	4.1	2.0	.0	.0	.0	6.1
3-4	.0	4.6	5.5	.2	.0	.0	10.3
5-6	.0	1.8	9.0	.3	.0	.0	11.2
7	.0	.1	2.8	.4	.0	.0	3.3
8-9	.0	.0	.8	.2	.0	.0	1.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	11.0	20.4	1.1	.0	.0	32.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.1	5.4	4.0	.0	.0	.0	9.6
3-4	.1	4.2	14.7	.8	.0	.0	19.8
5-6	.0	2.9	15.2	1.1	.0	.0	19.2
7	.0	1.0	7.1	.8	.0	.0	8.9
8-9	.0	.0	1.6	.6	.0	.0	2.2
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.7	.3	.0	.0	.9
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	14.1	44.3	3.7	.0	.0	62.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	1.0	.7	*	.0	.0	1.7
5-6	.0	.3	1.0	.0	.0	.0	1.3
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	2.3	*	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1974 AREA 0001 GEORGETOWN 8.9N 57.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.2	.0	.0	.0	.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	*	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	*	.0	.0	*	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.1	1.0	.1	.0	.0	.0	1.3	
1-2	.1	10.3	6.4	.0	.0	.0	16.8	
3-4	.1	9.8	21.1	1.0	.0	.0	32.0	
5-6	.0	5.2	25.2	1.4	.0	.0	31.9	
7	.0	1.2	10.0	1.3	.0	.0	12.5	
8-9	.0	.0	2.5	.8	.0	.0	3.3	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
12	.0	.0	.7	.3	.0	.0	.9	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								769
TOT PCT	.4	27.4	67.2	4.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.1	15.8	11.8	3.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	688	4
6-7	.0	.9	9.2	15.2	7.2	3.3	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	632	5
8-9	.1	.2	1.2	3.9	3.6	2.5	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	7
10-11	.0	.0	.2	.4	.6	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	7
12-13	.0	.0	.3	.1	.2	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
>13	.0	.0	.0	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	.1	.4	1.8	1.5	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	5
TOTAL	15	147	486	562	274	145	54	15	4	0	0	0	0	0	0	0	0	0	0	1702	5
PCT	.9	8.6	28.6	33.0	16.1	8.5	3.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1933-1975
(OVER-ALL) 1856-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	8.4	4.8	.0	.0	.0	.0	.0	13.3	.0	1.8	.0	.0	1.8		.0	83.1
NE	2.3	4.6	1.0	.0	.0	.0	.0	7.7	4.6	1.0	1.1	.0	.7		.0	85.0
E	2.9	4.4	1.5	.0	.0	.0	.1	8.8	5.1	.7	.5	.0	.6		.0	84.4
SE	6.8	7.2	.7	.0	.0	.0	.0	14.8	6.4	1.7	.1	.0	.9		.0	77.3
S	9.7	11.3	.0	.0	.0	.0	.0	21.0	.0	.0	.0	.0	.0		.0	79.0
SW	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0		.0	96.0
W	15.8	.0	.0	.0	.0	.0	.0	15.8	.0	.0	.0	.0	.0		.0	84.2
NW	6.7	.0	.0	.0	.0	.0	.0	6.7	6.7	6.7	.0	.0	.0		.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.9	7.8	3.9	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0		.0	82.4
TOT PCT	3.3	4.7	1.3	.0	.0	.0	*	9.2	4.8	.9	.6	.0	.6		.0	84.0
TOT OBS:	2640															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	3.8	.5	.0	.0	.0	.2	6.7	4.2	1.7	1.2	.0	.6		.0	85.8
06&09	5.1	4.9	1.9	.0	.0	.0	.0	11.5	5.8	1.9	.5	.0	.4		.0	80.4
12&15	3.1	5.1	1.7	.0	.0	.0	.0	9.9	4.2	.3	.4	.0	.6		.0	84.7
18&21	2.8	4.8	1.1	.0	.0	.0	.0	8.6	5.5	.0	.5	.0	.9		.0	84.5
TOT PCT	3.2	4.7	1.3	.0	.0	.0	*	9.1	4.9	.9	.6	.0	.6		.0	84.0
TOT OBS:	2659															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.0	.4	*	.0	.0		1.8	8.0	2.3	2.6	1.1	1.9	1.8	2.0	1.1	3.4
NE	1.5	11.1	13.8	.7	*	.0		27.1	11.7	29.8	35.2	29.3	25.6	24.8	23.6	24.5	29.4
E	2.0	21.6	33.5	3.1	*	.0		60.3	12.7	59.3	51.5	63.6	58.0	61.9	50.3	64.4	54.0
SE	.6	4.0	2.3	.2	.0	.0		7.0	9.7	4.7	5.3	3.8	8.4	7.9	15.4	7.4	9.1
S	.3	.5	.1	.0	.0	.0		.9	7.1	.6	1.1	.1	.4	.8	3.0	1.0	2.7
SW	.1	.1	*	*	.0	.0		.2	8.0	.1	.0	.4	.0	.2	.0	.3	.0
W	.1	.1	.1	.0	.0	.0		.2	7.2	.5	.0	.1	.0	.1	.4	.2	.0
NW	.2	.4	.1	.0	.0	.0		.7	7.0	.7	1.5	.8	1.1	.5	.4	.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.0	2.9	.6	4.6	1.9	4.7	.3	1.5
TOT OBS	218	1236	1601	129	2	0	3186		11.8	705	137	514	131	740	232	595	132
TOT PCT	6.8	38.8	50.3	4.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	.9	.1	.0	.0		1.8	8.0	2.3	1.3	1.9	1.5
NE	4.5	18.3	4.3	.1	.0		27.1	11.7	30.6	28.5	24.5	25.3
E	6.8	40.2	13.0	.3	.0		60.3	12.7	58.0	62.5	59.2	62.5
SE	2.1	4.4	.5	*	.0		7.0	9.7	4.8	4.8	9.7	7.7
S	.4	.4	*	.0	.0		.9	7.1	.7	.2	1.3	1.3
SW	.1	*	*	*	.0		.2	8.0	.1	.3	.2	.2
W	.2	.1	*	.0	.0		.2	7.2	.4	.1	.2	.2
NW	.4	.3	.0	.0	.0		.7	7.0	.8	.9	.5	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.1	1.4	2.6	.6
TOT OBS	543	2061	569	13	0	3186		11.8	842	645	972	727
TOT PCT	17.0	64.7	17.9	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1933-1975
(OVER-ALL) 1856-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	6.1	39.3	48.5	3.9	.1	.0	11.5	100.0	842
06&09	1.4	2.0	39.2	53.6	3.7	.0	.0	12.1	100.0	645
12&15	2.6	8.1	38.7	46.6	3.9	.1	.0	11.2	100.0	972
18&21	.6	2.6	38.0	54.2	4.7	.0	.0	12.6	100.0	727
TOT	56	162	1236	1601	129	2	0	11.8		3186
PCT	1.8	5.1	38.8	50.3	4.0	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.3	.3	.3		4.3
NE	6.5	7.6	9.1	3.4		4.4
E	12.6	19.4	23.2	9.6		4.7
SE	.5	1.2	2.4	1.2		5.5
S	*	*	.3	.1		5.7
SW	.1	.2	.0	.0		3.2
W	.0	.0	*	.1		7.5
NW	.2	.1	.2	.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.0	.2		4.3
TOT OBS	408	578	711	301	1998	4.6
TOT PCT	20.4	28.9	35.6	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.1	.1	*	.0	.0	.0	.0	.9	
NE	.1	.1	.5	2.6	3.2	1.3	.3	*	*	.0	18.5	
E	.3	.3	1.1	5.9	7.4	3.1	1.1	.1	.5	.2	45.0	
SE	.1	.0	.3	.9	.6	.3	.1	.1	*	.0	3.0	
S	.1	.0	.0	.1	*	.0	.0	.0	.0	.0	.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	*	
NW	.0	.1	.0	.0	.1	.1	.1	.0	.1	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.4	
TOT OBS	11	7	40	193	230	96	30	4	12	3	1372	1998
TOT PCT	.6	.4	2.0	9.7	11.5	4.8	1.5	.2	.6	.2	68.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.6	.9	.9	.9	.9	.9	.9	.9
* OR >3500	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	5.7	7.0	7.2	7.3	7.3	7.3	7.3	7.3
* OR >1000	15.3	18.2	18.6	18.8	18.8	18.8	18.8	18.8
* OR >600	21.5	27.5	28.2	28.4	28.4	28.4	28.5	28.5
* OR >300	22.8	29.3	30.1	30.3	30.4	30.4	30.4	30.4
* OR >150	23.1	29.6	30.5	30.6	30.7	30.7	30.8	30.8
* OR > 0	23.3	29.8	30.9	31.1	31.3	31.3	31.3	31.3
TOTAL	467	599	620	625	628	628	629	629

TOTAL NUMBER OF OBS: 2007

PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.2	10.1	20.7	20.3	12.4	9.2	8.1	6.7	7.9 .4	2100

PERIOD: (PRIMARY) 1933-1975
(OVER-ALL) 1856-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.3	.4	*	.0	.0	.0	.0	.0	.0	.7	
	PCP	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.3	
	PCP	*	.1	.4	.1	*	.0	.0	.0	.0	.0	.7	
2<5	NO PCP	.1	.4	.6	*	.1	.0	*	.0	.0	.0	1.1	
	TOT %	.1	.5	1.0	.1	.1	.0	*	.0	.0	.0	1.8	
	PCP	*	.8	2.7	.6	*	*	*	*	.0	.2	4.5	
5<10	NO PCP	.3	3.4	7.6	1.2	.1	.1	*	.0	.0	.4	13.0	
	TOT %	.3	4.2	10.3	1.8	.1	.1	*	*	.0	.6	17.5	
	PCP	.1	1.0	2.0	.2	.0	.0	.0	.0	.0	.1	3.4	
10+	NO PCP	1.0	20.5	48.0	4.3	.3	.2	.1	.5	.0	1.2	76.2	
	TOT %	1.1	21.5	50.0	4.6	.3	.2	.1	.5	.0	1.3	79.6	
	TOT OBS												2635
	TOT PCT	1.5	26.7	61.8	6.6	.6	.2	.2	.6	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.2	.1	*	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.3	.3	*	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.1	.1	*	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.3	.1	*	.0	.0	.0	.0	.0	.6	
	0-3	.0	*	.1	*	*	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.2	.3	.1	.1	.0	*	.0	.0		.7	
	11-21	*	.2	.6	*	*	.0	.0	.0	.0		.9	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.5	1.1	.1	.1	.0	*	.0	.0	.0	2.0	
	0-3	.1	.2	.6	.4	.0	*	*	.0	.0	.6	1.8	
5<10	4-10	.1	1.8	3.2	.8	.1	*	*	.0	.0		6.1	
	11-21	*	1.9	5.6	.5	*	*	*	.1	.0		8.2	
	22+	*	.1	.6	*	.0	.0	.0	.0	.0		.8	
	TOT %	.3	4.0	10.0	1.7	.1	.1	.1	.1	.0	.6	16.9	
	0-3	.3	1.3	1.4	.2	.2	.1	*	.2	.0	1.2	4.8	
10+	4-10	.6	8.1	17.8	2.8	.3	*	*	.4	.0		30.0	
	11-21	.2	11.0	28.5	1.6	.1	.0	*	.1	.0		41.5	
	22+	.0	.5	2.5	.1	.0	*	.0	.0	.0		3.2	
	TOT %	1.1	20.9	50.1	4.8	.6	.1	.1	.6	.0	1.2	79.6	
	TOT OBS												2850
	TOT PCT	1.5	26.0	62.0	6.8	.9	.2	.2	.7	.0	1.8	100.0	

PERIOD: (PRIMARY) 1933-1975
(OVER-ALL) 1856-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	1.7	7.9	10.2	5.3	1.5	.0	.0	.2	27.4	72.6	471
06&09	.6	.0	2.1	8.3	9.4	4.3	.9	.4	.9	.2	27.1	72.9	468
12&15	.4	.9	1.7	10.4	11.7	3.7	1.9	.4	.4	.0	31.3	68.7	540
18&21	.7	.2	2.3	10.8	13.4	5.6	1.6	.0	1.0	.2	35.7	64.3	574
TOT	11	7	40	194	232	97	30	4	12	3	630	1423	2053
PCT	.5	.3	1.9	9.4	11.3	4.7	1.5	.2	.6	.1	30.7	69.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	1.2	.9	2.3	18.7	76.7	738
06&09	.0	.7	.3	1.5	15.6	81.9	598
12&15	.2	.4	.5	2.6	18.3	78.1	853
18&21	.1	.6	.6	1.5	15.1	82.1	681
TOT	4	20	17	58	490	2281	2870
PCT	.1	.7	.6	2.0	17.1	79.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OR RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	2.4	11.2	17.3	71.5	456
06&09	.7	2.9	11.6	16.0	72.3	455
12&15	.4	3.2	13.9	17.8	68.3	539
18&21	.7	3.4	15.6	21.0	63.4	563
TOT	11	60	266	365	1376	2007
PCT	.5	3.0	13.3	18.2	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.8	.3	.0	.0	25	1.2
85/89	.0	.0	.0	*	1.5	3.2	1.2	.5	135	6.4
80/84	.0	.0	.0	.0	1.5	27.9	35.6	7.7	1530	72.7
75/79	.0	.0	.0	.0	.0	1.5	9.1	8.7	407	19.3
70/74	.0	.0	.0	.0	.0	.0	*	.3	8	.4
TOTAL	0	0	0	3	81	692	967	362	2105	100.0
PCT	.0	.0	.0	.1	3.8	32.9	45.9	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.7	*	.0	.0	.0	.0	.0	.1
*	1.6	3.7	.7	.1	.0	.0	*	.0	.2
1.1	20.2	46.0	4.0	.3	.1	.1	.2	.0	.8
.4	4.9	11.1	1.3	*	*	*	.3	.0	1.2
.0	*	.1	.1	.1	*	*	.0	.0	.0
1.6	27.0	61.6	6.0	.5	.2	.2	.6	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	83	81	78	76	75	80.4	828
06&09	87	83	82	80	77	75	71	79.8	642
12&15	94	88	86	81	77	75	73	81.5	966
18&21	93	91	87	82	78	75	72	82.3	717
TOT	94	88	85	81	77	75	71	81.1	3153

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.1	26.2	54.2	18.5	84	531
06&09	.0	.0	.9	21.8	54.6	22.7	85	454
12&15	.0	.3	4.3	33.6	44.9	17.2	82	622
18&21	.0	.2	8.6	48.3	32.2	10.7	79	513
TOT	0	3	81	695	978	363	82	2120

PERIOD: (PRIMARY) 1933-1975
(OVER-ALL) 1856-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.3	*	7	.0	.3
7/8	.0	.0	.0	.0	.2	.4	*	15	.0	.7
6	.0	.0	.0	*	.5	.1	.0	15	*	.6
5	.0	.0	.0	.3	1.2	.1	.0	37	.0	1.6
4	.0	.0	*	1.0	.7	.0	.0	42	.0	1.8
3	.0	.0	*	1.9	1.5	*	.0	80	*	3.4
2	.0	.0	.3	5.4	1.0	.0	.0	154	*	6.6
1	.0	*	1.2	7.7	.5	.0	.0	218	.1	9.3
0	*	*	3.6	15.0	.1	.0	.0	432	.2	18.5
-1	.0	.0	5.2	10.7	*	.0	.0	368	.1	15.8
-2	*	*	10.1	5.9	*	.0	.0	371	*	16.1
-3	.0	*	6.9	2.9	.0	.0	.0	227	.0	9.8
-4	.0	.3	5.3	1.4	.0	.0	.0	163	.0	7.1
-5	.0	.2	3.4	.5	.0	.0	.0	95	.0	4.1
-6	.0	.6	.9	.0	.0	.0	.0	34	.0	1.5
-7/-8	*	.5	.4	.1	.0	.0	.0	25	.0	1.1
-9/-10	.0	.2	.3	.2	.0	.0	.0	16	.0	.7
-11/-13	.0	.0	.2	.0	.0	.0	.0	5	.0	.2
TOTAL	3	44	876	1223	136	21	2	2305	15	2290
PCT	.1	1.9	38.0	53.1	5.9	.9	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.1	.0	.0	.0	.8
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.3	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.3	5.0	1.3	.0	.0	.0	6.6
3-4	.0	4.1	7.2	.2	.0	.0	11.5
5-6	.0	1.1	4.4	.3	.0	.0	5.9
7	.0	.2	2.1	.2	.0	.0	2.5
8-9	.0	.2	.9	.2	.0	.0	1.2
10-11	.0	.0	.2	.1	.0	.0	.2
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	11.2	16.1	.9	.0	.0	28.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.2	.0	.0	.0	.9
1-2	.2	7.4	1.9	.0	.0	.0	9.6
3-4	.2	8.1	12.8	.6	.0	.0	21.7
5-6	.0	3.2	14.4	.9	.0	.0	18.5
7	.0	.4	6.6	1.3	.0	.0	8.3
8-9	.0	.1	2.3	.6	.0	.0	3.0
10-11	.0	.1	.3	.7	.0	.0	1.1
12	.0	.1	.2	.2	.0	.0	.6
13-16	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	20.1	39.0	4.4	.0	.0	63.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.1	.1	.0	.0	.0	1.2
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.3	1.0	.2	.0	.0	1.5
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.9	.4	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1975

JUNE

TABLE 18 (CONT)

AREA 0001 GEORGETOWN
8.9N 57.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2	.2	.0	.0	.1	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.5	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	1.9	.2	.0	.0	.0	3.0	
1-2	.5	14.5	3.4	.0	.0	.0	18.4	
3-4	.2	12.9	20.7	.7	.0	.0	34.5	
5-6	.0	4.9	20.0	1.3	.0	.0	26.2	
7	.0	.6	9.0	1.6	.0	.0	11.2	
8-9	.0	.2	3.2	1.0	.0	.0	4.4	
10-11	.0	.1	.5	.7	.0	.0	1.3	
12	.0	.1	.2	.2	.0	.0	.6	
13-16	.0	.0	.2	.1	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								822
TOT PCT	1.6	35.3	57.4	5.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	7.1	15.6	10.2	4.5	1.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	721	4
6-7	.2	1.3	8.9	14.3	6.7	2.6	1.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	630	5
8-9	.0	.2	1.9	4.1	3.6	2.0	1.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	6
10-11	.0	.1	.2	1.0	.9	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	7
12-13	.0	.0	.3	.4	.2	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
>13	.0	.0	.0	.1	.1	.2	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	10
INDET	.6	.6	1.1	.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	4
TOTAL	46	162	491	540	290	124	56	19	20	0	1	0	0	0	0	0	0	0	0	1749	5
PCT	2.6	9.3	28.1	30.9	16.6	7.1	3.2	1.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1859-1975

AREA 0001 GEORGETOWN
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.0	1.5	2.6	.0	.0	.0	.0	7.1	5.2	3.4	.0	.0	.0	.0		84.3
NE	1.7	4.4	.6	.0	.0	.0	.0	6.7	3.5	.6	1.0	.0	.4	.0		88.0
E	2.0	3.5	.8	.0	.0	.0	.0	6.3	5.0	.9	.6	.0	.1	.1		87.3
SE	4.8	5.7	1.2	.0	.0	.0	.0	11.3	5.6	1.7	1.2	.0	.8	.4		79.4
S	7.3	8.2	.0	.0	.0	.0	.0	15.5	7.8	7.8	2.4	.0	.0	.0		71.4
SW	6.5	.0	4.3	.0	.0	.0	.0	6.5	1.1	.0	.0	.0	.0	.0		92.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	4.5	13.8	.0	.0	.0	.0	.0	18.4	1.1	6.9	.0	.0	.0	.0		73.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.2	3.2	.0	.0	.0	.0	.0	6.5	6.5	1.6	.0	.0	.0	.0		87.1
TOT PCT	2.4	4.0	.8	.0	.0	.0	.0	7.2	4.7	1.2	.7	.0	.3	.1		86.3
TOT OBS:	2629															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	2.5	1.3	.0	.0	.0	.0	5.6	2.8	2.1	1.0	.0	.4	.0		88.9
06&09	3.3	4.0	.9	.0	.0	.0	.0	7.9	4.1	3.1	.7	.0	.0	.2		84.5
12&15	3.2	5.5	.9	.0	.0	.0	.0	9.7	5.1	.1	.8	.0	.3	.0		84.0
18&21	1.3	4.1	.4	.0	.0	.0	.0	5.6	6.2	.1	.4	.0	.3	.1		87.1
TOT PCT	2.4	4.1	.9	.0	.0	.0	.0	7.3	4.6	1.3	.7	.0	.3	.1		86.1
TOT OBS:	2668															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.7	.5	*	.0	.0		2.8	8.0	3.1	3.8	3.2	2.9	1.2	4.6	1.7	3.8
NE	1.4	15.2	9.4	.5	.0	.0		26.5	10.1	27.4	30.7	27.4	31.7	25.6	23.6	23.9	27.6
E	2.9	28.7	21.6	.9	*	.0		54.3	10.5	54.6	51.2	56.6	44.1	55.4	50.4	55.9	52.7
SE	.7	5.9	2.7	.1	*	.0		9.5	9.2	9.2	3.1	7.7	8.8	10.1	10.5	12.3	8.5
S	.7	1.1	.4	*	.0	.0		2.3	7.2	1.5	1.4	1.2	3.5	2.4	3.3	3.5	2.0
SW	.2	.6	.1	.0	.0	.0		.9	7.0	.6	1.0	.7	1.3	1.5	1.0	.7	.3
W	.2	.4	.1	.0	.0	.0		.7	6.3	.5	1.4	.5	.6	.9	2.2	.0	1.4
NW	.3	.5	.1	.0	.0	.0		.8	5.9	.9	.7	.6	2.6	.6	2.9	.2	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	2.2	4.8	2.2	4.5	2.3	1.5	1.8	.7
TOT OBS	291	1708	1105	50	2	0	3156		9.8	696	146	506	156	705	196	604	147
TOT PCT	9.2	54.1	35.0	1.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	1.6	.1	.0	.0		2.8	8.0	3.6	3.1	1.9	2.5
NE	7.1	16.4	2.9	*	.0		26.5	10.1	28.0	28.4	25.2	24.6
E	12.6	35.7	6.0	.1	.0		54.3	10.5	54.0	53.6	54.3	55.3
SE	3.2	5.7	.6	*	.0		9.5	9.2	8.1	7.9	10.2	11.5
S	1.1	1.1	.1	.0	.0		2.3	7.2	1.5	1.8	2.6	3.2
SW	.5	.5	*	.0	.0		.9	7.0	.7	.9	1.4	.7
W	.5	.2	.1	.0	.0		.7	6.3	.7	.5	1.2	.3
NW	.6	.2	*	.0	.0		.8	5.9	.8	1.1	1.1	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	2.6	2.7	2.1	1.6
TOT OBS	911	1931	309	5	0	3156		9.8	842	662	901	751
TOT PCT	28.9	61.2	9.8	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1859-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.6	7.8	53.4	34.1	2.0	.0	.0	9.6	100.0	842
06&09	2.7	6.9	53.2	35.6	1.4	.2	.0	9.9	100.0	662
12&15	2.1	8.8	56.6	32.5	2.0	.0	.0	9.4	100.0	901
18&21	1.6	3.9	55.1	38.5	.8	.1	.0	10.3	100.0	751
TOT	71	220	1708	1105	50	2	0	9.8		3156
PCT	2.2	7.0	54.1	35.0	1.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.7	.9	.1		4.4
NE	7.4	8.2	8.1	2.9		4.0
E	15.6	17.1	18.3	5.2		4.1
SE	2.2	3.7	3.3	1.0		4.3
S	.4	.3	.9	.3		5.2
SW	.2	.1	.2	.1		5.1
W	.1	.1	.2	.2		6.1
NW	.2	.1	.1	.1		4.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.4	.1		3.6
TOT OBS	532	607	643	192	1974	4.1
TOT PCT	27.0	30.7	32.6	9.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.1	.2	.2	.0	.0	.0	.0	1.6	
NE	.1	.1	.6	1.6	2.1	1.2	.5	.0	.0	*	20.1	
E	.2	.2	1.1	4.1	4.5	1.7	.8	.1	.3	*	43.3	
SE	.1	.1	.2	.8	.9	.4	.1	*	.1	.0	7.6	
S	.0	.0	.1	*	.5	.2	.0	.0	.0	.0	1.2	
SW	.0	.1	.0	.1	*	.1	.1	.0	.0	.0	.3	
W	.0	.1	.1	.1	.2	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	1.1	
TOT OBS	7	9	41	138	169	76	29	3	6	1	1495	1974
TOT PCT	.4	.5	2.1	7.0	8.6	3.9	1.5	.2	.3	.1	75.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	4.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
* OR >1000	11.4	14.0	14.2	14.2	14.2	14.2	14.2	14.2
* OR >600	16.8	20.8	21.2	21.2	21.2	21.2	21.2	21.2
* OR >300	18.0	22.8	23.2	23.2	23.2	23.3	23.3	23.3
* OR >150	18.3	23.1	23.7	23.7	23.7	23.7	23.7	23.7
* OR > 0	18.4	23.3	23.9	23.9	23.9	24.0	24.0	24.1
TOTAL	366	465	476	476	476	478	479	480

TOTAL NUMBER OF OBS: 1994

PCT FREQ NH <5/8: 75.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	13.2	22.4	19.6	14.9	8.6	6.7	4.2	4.6	.2	2092

JULY

PERIOD: (PRIMARY) 1930-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.1	.3	*	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.3	*	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.1	.3	*	.0	*	.0	*	.0	.0	.5	
2<5	NO PCP	.0	.1	.3	*	.0	.0	.0	*	.0	.1	.6	
	TOT %	*	.2	.6	.1	.0	*	.0	.1	.0	.1	1.1	
	PCP	.1	.8	1.9	.7	.3	*	.0	.1	.0	.2	4.0	
5<10	NO PCP	.6	3.1	6.7	1.2	.6	.3	.3	.2	.0	.7	13.6	
	TOT %	.7	3.9	8.6	1.9	.9	.3	.3	.2	.0	.9	17.6	
	PCP	*	.7	1.1	.4	.1	.0	.0	*	.0	.0	2.4	
10+	NO PCP	1.8	20.5	44.4	7.4	1.4	.6	.4	.5	.0	1.4	78.1	
	TOT %	1.8	21.2	45.5	7.7	1.5	.6	.4	.5	.0	1.4	80.5	
	TOT OBS												2622
	TOT PCT	2.5	25.5	55.1	9.7	2.3	.9	.7	.8	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.1	.1	*	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.3	*	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.1	*	*	.0	.0	.0	.0	.0	.1	.2	
2<5	4-10	.1	.1	.4	*	.0	.0	.0	*	.0		.6	
	11-21	.0	.1	.3	.1	.0	*	.0	*	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.7	.1	.0	*	.0	.1	.0	.1	1.3	
	0-3	.1	.4	1.0	.4	.5	.1	.1	*	.0	.8	3.4	
5<10	4-10	.5	2.0	4.0	.9	.2	.2	.1	.2	.0		8.2	
	11-21	.1	1.2	3.3	.4	.1	*	.1	.0	.0		5.2	
	22+	*	.1	.2	.1	.0	.0	.0	.0	.0		.4	
	TOT %	.7	3.7	8.5	1.8	.8	.3	.3	.2	.0	.8	17.2	
	0-3	.4	.9	1.9	.3	.3	.1	.1	.2	.0	1.4	5.5	
10+	4-10	1.1	12.1	24.3	5.0	.9	.4	.2	.3	.0		44.2	
	11-21	.5	8.3	18.5	2.3	.3	.1	*	.1	.0		30.0	
	22+	.0	.2	.6	.1	.0	.0	.0	.0	.0		.9	
	TOT %	1.9	21.5	45.2	7.6	1.5	.6	.4	.5	.0	1.4	80.6	
	TOT OBS												2852
	TOT PCT	2.7	25.8	55.0	9.6	2.3	.9	.7	.8	.0	2.2	100.0	

PERIOD: (PRIMARY) 1930-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.2	1.4	6.2	7.2	3.7	.8	.2	.4	.0	20.2	79.8	485
06&09	.6	.2	1.7	6.6	6.8	3.2	1.5	.0	.4	.2	21.3	78.7	469
12&15	.4	.6	2.5	7.5	10.0	3.6	1.2	.0	.0	.0	25.7	74.3	521
18&21	.3	.7	2.2	6.8	8.8	4.2	2.0	.3	.3	.0	25.7	74.3	592
TOT	7	9	41	140	171	77	29	3	6	1	484	1583	2067
PCT	.3	.4	2.0	6.8	8.3	3.7	1.4	.1	.3	*	23.4	76.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.8	.8	1.5	20.1	76.8	751
06&09	.3	.3	.3	.6	17.2	81.2	621
12&15	.1	.4	.1	1.9	20.3	77.2	806
18&21	.1	.1	.3	1.1	11.2	87.1	714
TOT	4	12	11	38	502	2325	2892
PCT	.1	.4	.4	1.3	17.4	80.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.7	8.7	12.4	78.9	469
06&09	.7	2.7	10.1	12.8	77.0	444
12&15	.4	3.8	11.7	14.7	73.6	503
18&21	.3	3.3	10.6	15.7	73.7	578
TOT	7	58	206	280	1508	1994
PCT	.4	2.9	10.3	14.0	75.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.6	.2	.1	.0	20	.9
85/89	.0	.0	.1	.1	3.7	5.2	1.1	.3	223	10.6
80/84	.0	.0	.0	.0	2.2	32.2	31.0	6.2	1509	71.7
75/79	.0	.0	.0	.0	*	1.7	7.7	6.8	343	16.3
70/74	.0	.0	.0	.0	.0	.0	.0	.5	11	.5
TOTAL	0	0	2	4	138	829	842	291	2106	100.0
PCT	.0	.0	.1	.2	6.6	39.4	40.0	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.3	.0	.0	*	*	.0	.0	.1
.2	2.7	5.4	1.5	.2	*	*	.2	.0	.3
1.2	18.4	41.4	6.7	1.4	.3	.4	.5	.0	1.3
.4	3.6	8.0	1.6	.9	.3	.2	.2	.0	1.0
.1	*	.3	.1	.0	.0	.0	.0	.0	.0
2.2	25.1	55.3	9.9	2.5	.7	.7	.8	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	85	83	81	77	75	70	80.7	840
06&09	89	83	82	80	77	75	74	80.1	665
12&15	93	89	87	82	77	75	73	81.7	896
18&21	94	90	88	83	79	76	73	83.3	750
TOT	94	89	86	81	78	75	70	81.5	3151

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.2	34.0	49.0	14.6	82	541
06&09	.0	.0	.6	28.8	52.2	18.4	84	462
12&15	.0	.3	7.1	39.9	37.7	14.9	81	591
18&21	.0	.6	15.4	52.5	23.9	7.6	77	539
TOT	0	6	140	836	858	293	81	2133

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1859-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	#D FOG
11/13	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	*	.1	.1	.0	6	.0	.3
7/8	.0	.0	.0	.3	.6	.0	21	.0	.9
6	.0	.0	.0	.5	.4	*	23	.0	1.0
5	.0	.0	.3	1.0	.3	.0	39	.0	1.6
4	.0	.0	.6	2.2	.2	.0	71	.1	2.9
3	.0	*	.7	1.9	*	.0	63	.1	2.6
2	.0	.1	4.2	1.6	.0	.0	140	.0	5.9
1	.0	.5	6.5	1.0	*	.0	192	.0	8.1
0	.0	1.2	13.7	.4	.0	.0	362	.2	15.1
-1	.0	2.9	12.9	.3	.0	.0	380	.3	15.7
-2	.0	6.3	9.5	*	.0	.0	375	.1	15.7
-3	.0	6.1	4.3	.0	.0	.0	247	.0	10.4
-4	*	5.5	2.5	*	.0	.0	191	.0	8.1
-5	.2	4.2	.9	.0	.0	.0	125	.0	5.3
-6	.5	1.7	.1	.0	.0	.0	54	.0	2.3
-7/-8	1.3	1.1	.3	.0	.0	.0	62	.0	2.6
-9/-10	.3	.2	.0	.0	.0	.0	13	.0	.5
-11/-13	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	56		1342		42			20	2347
		706		220		1	2367		
PCT	2.4	29.8	56.7	9.3	1.8	*	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.3	.0	.0	.0	1.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.0	.0	.0	.0	1.7
1-2	.3	7.2	1.7	.0	.0	.0	9.1
3-4	.0	4.3	5.7	*	.0	.0	10.0
5-6	.0	1.3	4.7	.1	.0	.0	6.1
7	.0	*	1.2	.2	.0	.0	1.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	14.4	13.3	.4	.0	.0	28.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.0	.0	.0	.0	2.2
1-2	.6	12.5	3.3	.0	.0	.0	16.4
3-4	.0	9.4	9.3	.2	.0	.0	18.9
5-6	.0	3.8	8.7	.1	.0	.0	12.6
7	.0	.3	3.8	.8	.0	.0	4.9
8-9	.0	.1	.6	.1	.0	.0	.8
10-11	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	27.9	26.4	1.3	.0	.0	56.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	.0	2.3	.4	.0	.0	.0	2.7
3-4	.1	2.4	.9	.0	.0	.0	3.5
5-6	.0	.7	1.1	.0	.0	.0	1.8
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.4	.1	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.9	3.0	.3	.0	.0	9.4

PERIOD: (OVER-ALL) 1963-1975 AREA 0001 GEORGETOWN 8.9N 57.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.1	.0	.0	.0	.9
3-4	.4	.0	.1	.0	.0	.0	.5
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	.7	.0	.0	.0	1.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	4.0	.0	.0	.0	.0	6.6	
1-2	.9	23.3	5.4	.0	.0	.0	29.6	
3-4	.6	16.6	16.1	.3	.0	.0	33.5	
5-6	.0	6.1	14.9	.3	.0	.0	21.2	
7	.0	.6	5.2	1.0	.0	.0	6.8	
8-9	.0	.1	1.0	.3	.0	.0	1.4	
10-11	.0	.0	.5	.1	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								791
TOT PCT	4.0	50.7	43.4	1.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	13.6	20.6	9.4	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	826	3
6-7	.4	1.8	8.1	11.5	4.9	1.6	.8	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	5
8-9	.1	.5	1.3	4.2	2.7	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	6
10-11	.0	.5	.8	.6	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
12-13	.0	.0	.2	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
>13	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	1.7	.7	1.8	1.5	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	4
TOTAL	84	290	559	465	185	71	25	13	6	1	0	0	0	0	0	0	0	0	0	1699	4
PCT	4.9	17.1	32.9	27.4	10.9	4.2	1.5	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	1.0	5.0	.0	.0	.0	.0	.0	6.0	4.6	2.0	.0	.0	.0	.0		87.4
NE	1.5	4.3	.6	.0	.0	.0	.0	5.9	6.2	2.5	.3	.0	.1	.0		85.1
E	1.4	2.6	.3	.0	.0	.0	.0	4.3	3.8	2.4	.2	.0	.4	.1		88.9
SE	2.5	2.4	.5	.0	.0	.0	.0	5.2	3.3	2.0	.0	.0	.6	.0		89.0
S	4.5	3.0	.0	.0	.0	.0	.0	7.5	2.7	2.4	.0	.0	1.2	.0		87.5
SW	7.4	6.0	2.8	.0	.0	.0	.0	16.3	1.9	1.9	.0	.0	.0	.0		80.0
W	14.0	2.6	1.8	.0	.0	.0	.0	18.4	6.1	7.0	.0	.0	3.5	.0		68.4
NW	3.2	10.5	.0	.0	.0	.0	.0	13.7	6.5	4.0	.0	.0	.0	.0		79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	.0		97.4
TOT PCT	1.9	3.1	.4	.0	.0	.0	.0	5.3	4.1	2.4	.1	.0	.4	*		87.8
TOT OBS:	2830															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	1.3	2.3	.6	.0	.0	.0	.0	3.9	3.8	3.5	.1	.0	.3	.0		88.3
06&09	2.2	2.9	.6	.0	.0	.0	.0	5.4	4.3	5.9	.2	.0	.5	.0		83.8
12&15	2.7	3.8	.2	.0	.0	.0	.0	6.6	3.4	.6	.1	.0	.7	.1		88.6
18&21	1.2	3.2	.3	.0	.0	.0	.0	4.7	4.9	.4	.1	.0	.1	.0		90.0
TOT PCT	1.9	3.1	.4	.0	.0	.0	.0	5.2	4.1	2.4	.1	.0	.4	*		87.8
TOT OBS:	2864															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.0	.5	*	.0	.0		3.2	7.3	3.8	7.5	3.1	3.6	2.6	4.2	1.9	3.9
NE	1.7	12.6	6.6	.3	.0	.0		21.3	9.5	22.4	28.6	23.9	27.5	20.0	12.9	18.2	25.4
E	4.4	30.5	16.1	.6	*	.0		51.5	9.5	53.1	51.5	55.2	43.8	52.8	45.8	49.8	45.2
SE	1.1	9.1	4.4	*	.0	.0		14.5	9.2	12.9	7.5	9.5	15.2	15.9	21.0	18.4	14.0
S	.6	1.8	.4	.0	.0	.0		2.8	6.7	2.1	.4	1.8	2.1	3.1	3.5	4.7	2.7
SW	.2	1.0	.4	.2	.0	.0		1.7	10.6	1.6	.0	1.1	1.4	1.5	3.2	2.5	.8
W	.2	.5	.2	.1	.0	.0		.9	8.0	.4	1.5	.9	.0	.8	2.1	1.3	1.6
NW	.2	.8	.3	.0	.0	.0		1.4	7.8	1.2	.9	1.0	2.9	1.3	2.7	1.0	4.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.4	2.2	3.6	3.6	2.0	4.6	2.2	2.3
TOT OBS	397	1955	967	36	1	0	3356		9.0	735	137	561	140	809	219	626	129
TOT PCT	11.8	58.3	28.8	1.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	1.5	.1	.0	.0		3.2	7.3	4.4	3.2	3.0	2.3
NE	6.3	13.3	1.7	*	.0		21.3	9.5	23.4	24.6	18.5	19.4
E	14.7	33.6	3.2	.1	.0		51.5	9.5	52.9	52.9	51.3	49.0
SE	4.2	9.6	.7	*	.0		14.5	9.2	12.0	10.6	17.0	17.6
S	1.5	1.2	*	.0	.0		2.8	6.7	1.9	1.9	3.2	4.4
SW	.5	.8	.3	.1	.0		1.7	10.6	1.3	1.1	1.9	2.2
W	.5	.4	.1	*	.0		.9	8.0	.6	.7	1.0	1.4
NW	.7	.6	.1	.0	.0		1.4	7.8	1.1	1.4	1.6	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.4	3.6	2.5	2.3
TOT OBS	1098	2043	208	7	0	3356		9.0	872	701	1028	755
TOT PCT	32.7	60.9	6.2	.2	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

AREA 0001 GEORGETOWN
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	11.6	59.2	25.7	1.1	.0	.0	8.7	100.0	872
06&09	3.6	7.6	58.9	28.7	1.1	.1	.0	9.0	100.0	701
12&15	2.5	10.5	56.9	29.3	.8	.0	.0	8.9	100.0	1028
18&21	2.3	6.1	58.4	31.9	1.3	.0	.0	9.5	100.0	755
TOT	89	308	1955	967	36	1	0	9.0		3356
PCT	2.7	9.2	58.3	28.8	1.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.0	.8	.2		4.1
NE	5.8	6.6	6.3	2.3		4.0
E	17.2	19.0	14.3	3.3		3.7
SE	3.5	4.7	4.8	.8		4.1
S	.6	.8	1.2	.2		4.5
SW	.3	.3	.7	.4		5.3
W	*	.1	.4	.3		5.2
NW	.4	.1	.4	.1		4.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.9	.6	.3		3.8
TOT OBS	635	726	645	173	2179	3.9
TOT PCT	29.1	33.3	29.6	7.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.2	*	.2	.1	.0	.0	.0	2.1	
NE	*	*	.5	1.2	2.1	.9	.2	.1	.0	.0	16.1	
E	.1	.1	.6	2.0	4.4	1.8	.5	.2	.0	.0	43.9	
SE	*	.0	.1	.8	1.0	.6	.2	.2	.0	.0	10.9	
S	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	2.1	
SW	.0	.0	.1	.1	.3	.0	.2	.0	.0	.0	1.1	
W	*	.0	.1	*	.1	.1	.1	.0	.0	.0	.4	
NW	.0	.0	*	.1	.1	.1	*	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.1	.1	.1	.0	.0	.0	.0	2.0	
TOT OBS	6	3	31	103	184	87	28	11	0	0	1726	2179
TOT PCT	.3	.1	1.4	4.7	8.4	4.0	1.3	.5	.0	.0	79.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >4000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	4.8	5.6	5.8	5.8	5.8	5.8	5.8	5.8
* OR >1000	11.6	13.8	14.1	14.2	14.2	14.2	14.2	14.2
* OR >600	15.0	18.4	18.8	18.8	18.9	18.9	18.9	18.9
* OR >300	15.9	19.7	20.1	20.3	20.3	20.3	20.3	20.3
* OR >150	16.0	19.8	20.2	20.4	20.5	20.5	20.5	20.5
* OR > 0	16.1	19.9	20.3	20.6	20.7	20.8	20.8	20.8
TOTAL	354	437	447	453	455	456	456	456

TOTAL NUMBER OF OBS: 2197

PCT FREQ NH <5/8: 79.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.4	13.9	24.7	22.0	13.5	6.8	5.4	4.5	3.7	.1	2293

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.1	.1	.0	.0	.0	.0	*	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.1	.0	.0	.0	.0	*	.0	.0	.2	
	PCP	.0	.1	.1	.0	.0	*	*	*	.0	*	.3	
2<5	NO PCP	.0	.2	.1	.1	.0	.0	.0	.0	.0	*	.4	
	TOT %	.0	.2	.2	.1	.0	*	*	*	.0	.1	.7	
	PCP	.1	.8	1.1	.4	.1	.2	.1	*	.0	.0	2.4	
5<10	NO PCP	.4	2.4	6.3	1.7	.4	.3	.2	.2	.0	.4	12.3	
	TOT %	.4	2.9	7.4	2.1	.5	.5	.3	.2	.0	.4	14.7	
	PCP	.1	.6	.9	.3	.1	.1	*	.1	.0	.0	2.2	
10+	NO PCP	2.2	16.7	44.1	11.6	2.4	1.3	.6	.8	.0	2.3	81.9	
	TOT %	2.2	17.3	45.0	11.9	2.5	1.4	.6	.8	.0	2.3	84.1	
	TOT OBS												2826
	TOT PCT	2.7	20.6	53.0	14.0	3.0	1.9	1.0	1.1	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	*	*	.1	.0	.0	.0	.0	*	.0		.2	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.2	.0	.0	.0	.0	*	.0	.0	.3	
	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.0	.1	*	.1	.0	.0	*	*	.0		.3	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	*	.0	.0	.0	*	.0	.0	.0		.1	
	TOT %	.0	.2	.2	.1	.0	*	*	*	.0	.1	.7	
	0-3	.1	.3	.7	.2	.1	*	.1	.0	.0	.4	1.9	
5<10	4-10	.3	1.5	3.1	1.2	.2	.3	.1	.2	.0		7.1	
	11-21	*	1.0	2.9	.7	.1	*	.0	*	.0		4.8	
	22+	.0	*	.2	.0	.0	*	*	.0	.0		.3	
	TOT %	.4	2.8	7.0	2.1	.4	.4	.3	.2	.0	.4	14.0	
	0-3	.6	1.4	3.9	1.0	.5	.1	.1	.2	.0	2.3	10.2	
10+	4-10	1.4	10.7	27.6	7.9	1.7	.7	.3	.5	.0		50.9	
	11-21	.3	5.2	12.9	3.5	.3	.4	.2	.1	.0		22.9	
	22+	.0	.2	.4	*	.0	.1	*	.0	.0		.8	
	TOT %	2.3	17.6	44.9	12.5	2.5	1.3	.7	.8	.0	2.3	84.8	
	TOT OBS												3044
	TOT PCT	2.7	20.8	52.4	14.6	2.9	1.8	1.0	1.0	.0	2.8	100.0	

PERIOD: (PRIMARY) 1935-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.2	1.1	3.4	6.3	3.2	1.3	.2	.0	.0	15.7	84.3	527
06&09	.2	.0	1.3	4.0	8.1	2.5	.6	.4	.0	.0	17.0	83.0	529
12&15	.7	.2	1.7	5.0	9.7	4.2	1.2	.8	.0	.0	23.4	76.6	598
18&21	.2	.2	1.3	5.6	8.1	5.3	1.9	.5	.0	.0	23.0	77.0	626
TOT	6	3	31	104	185	88	29	11	0	0	457	1823	2280
PCT	.3	.1	1.4	4.6	8.1	3.9	1.3	.5	.0	.0	20.0	80.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.5	.1	.6	16.8	81.9	785
06&09	.0	.2	.3	.5	13.5	85.6	659
12&15	.0	.1	.5	.7	14.3	84.4	914
18&21	.1	.1	.1	.8	11.3	87.5	720
TOT	1	7	9	20	433	2608	3078
PCT	*	.2	.3	.6	14.1	84.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	5.5	11.0	83.5	510
06&09	.2	1.6	6.2	12.0	81.8	499
12&15	.7	2.6	8.4	15.7	75.9	581
18&21	.2	1.6	8.2	16.0	75.8	607
TOT	6	42	158	304	1735	2197
PCT	.3	1.9	7.2	13.8	79.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	.0	.7	1.3	.3	.2	*	59	2.5
85/89	.0	.0	.0	.5	4.0	7.2	1.3	.8	322	13.9
80/84	.0	.0	.0	.2	2.7	33.9	31.9	5.2	1716	73.9
75/79	.0	.0	.0	.0	*	1.1	4.6	3.6	218	9.4
70/74	.0	.0	.0	.0	.0	.0	.0	.3	7	.3
TOTAL	0	0	0	32	188	987	886	230	2323	100.0
PCT	.0	.0	.0	1.4	8.1	42.5	38.1	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
	.1	.4	1.2	.5	.1	.0	.1	.0	.0	.1
	.4	2.0	7.4	2.5	.4	.2	.1	.2	.0	.5
	1.7	16.7	40.3	9.3	1.9	.9	.5	.7	.0	1.9
	.3	1.9	3.8	1.4	.5	.6	.3	.1	.0	.5
	.0	.1	.1	*	.0	*	*	.0	.0	*
	2.5	21.0	52.8	13.8	3.0	1.8	1.0	.9	.0	3.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	82	79	76	75	81.6	874
06&09	87	84	83	81	78	75	73	80.9	704
12&15	95	92	88	82	78	76	73	82.6	1024
18&21	94	92	90	84	79	76	73	84.1	755
TOT	95	91	87	82	78	76	73	82.3	3357

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	4.3	40.0	45.8	9.3	81	583
06&09	.0	.2	1.0	38.8	48.4	11.7	82	521
12&15	.0	2.3	8.2	41.8	35.7	12.1	79	687
18&21	.0	2.0	18.9	49.2	24.0	5.9	75	555
TOT	0	32	191	995	897	231	79	2346

AUGUST

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	40 FOG
11/13	.0	.0	.0	.0	.0	.1	2	.0	.1
9/10	.0	.0	.0	.0	.3	.2	12	.0	.5
7/8	.0	.0	*	.2	1.0	*	32	.0	1.3
6	.0	.0	.0	.3	.7	.0	25	.0	1.0
5	.0	.0	*	.6	.4	.0	28	.0	1.1
4	.0	*	.5	1.6	.3	.0	62	.0	2.5
3	.0	*	.4	1.9	.2	.0	61	.0	2.4
2	.0	.1	2.1	3.0	.0	.0	129	.0	5.1
1	.0	.2	5.0	2.9	*	.0	208	.0	8.2
0	.0	.5	11.9	1.1	*	.0	342	.1	13.5
-1	.0	.6	15.9	.6	.0	.0	433	.0	17.1
-2	.0	2.5	14.7	.1	.0	.0	437	*	17.3
-3	.0	3.5	8.5	*	.0	.0	303	*	12.0
-4	.0	4.2	3.8	.0	.0	.0	201	.0	8.0
-5	.1	3.5	1.2	.0	.0	.0	121	.0	4.8
-6	.1	1.7	.3	.0	.0	.0	54	.0	2.1
-7/-8	.6	1.3	.5	.0	.0	.0	59	.0	2.3
-9/-10	.4	.2	.0	.0	.0	.0	14	.0	.6
-11/-13	.1	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	32		1638		75		4	2522	
		463		311		7	2526		
PCT	1.3	18.3	64.8	12.3	3.0	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4
1-2	.2	.5	.0	.0	.0	.0	.7
3-4	.1	.3	.0	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.1	.1	.0	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.7
1-2	.2	6.6	1.5	.0	.0	.0	8.3
3-4	.0	4.4	4.0	.1	.0	.0	8.5
5-6	.0	1.5	3.2	.1	.0	.0	4.8
7	.0	.1	.9	.0	.0	.0	1.0
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	13.7	9.8	.3	.0	.0	24.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	3.6	.0	.0	.0	.0	3.7
1-2	.2	16.9	3.4	.0	.0	.0	20.5
3-4	.1	9.9	8.1	.0	.0	.0	18.1
5-6	.0	3.4	7.1	.4	.0	.0	10.9
7	.0	.9	1.5	.2	.0	.0	2.7
8-9	.0	.1	.2	.1	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	34.8	20.4	.8	.0	.0	56.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.1	2.9	1.3	.0	.0	.0	4.3
3-4	.0	2.3	1.5	.0	.0	.0	3.8
5-6	.0	1.1	.6	.0	.0	.0	1.6
7	.0	.2	.6	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	7.2	3.9	.0	.0	.0	11.3

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0001 GEORGETOWN
8.9N 57.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.2	.3	.2	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.3
3-4	.0	.4	.2	.0	.0	.0	.6	.0	.1	.1	.1	.0	.0	.3
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.5	.0	.0	.0	1.6	.1	.3	.1	.1	.0	.0	.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.6	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.1	.0	.1	.0	.0	.2	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.1	.0	.0	.3	.2	.5	.0	.0	.0	.0	.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	6.2	.0	.0	.0	.0	10.2	
1-2	1.1	27.7	6.3	.0	.0	.0	35.2	
3-4	.2	17.4	13.8	.3	.0	.0	31.7	
5-6	.0	6.0	11.1	.4	.0	.0	17.5	
7	.0	1.2	3.0	.2	.0	.0	4.4	
8-9	.0	.1	.2	.2	.0	.0	.6	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								901
TOT PCT	5.3	58.7	34.6	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	19.5	22.0	8.4	2.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1033	3
6-7	.2	1.6	8.1	8.5	4.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	440	5
8-9	.1	.2	1.7	2.0	1.5	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	5
10-11	.0	.6	.4	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
12-13	.0	.0	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
INDET	4.2	1.7	2.2	1.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	2
TOTAL	158	433	640	382	153	42	16	7	1	0	0	0	0	0	0	0	0	0	0	1832	4
PCT	8.6	23.6	34.9	20.8	8.3	2.3	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1855-1974

AREA 0001 GEORGETOWN
6.8N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	5.3	4.1	.0	.0	.0	.0	.0	9.4	4.7	8.5	.0	.0	.0		.0	79.8
NE	1.4	3.5	.8	.0	.0	.0	.0	5.5	3.1	2.7	.0	.0	.0		.0	89.0
E	.9	2.3	.6	.0	.0	.0	.0	3.8	3.1	2.1	.1	.0	.1		.0	90.8
SE	1.5	2.3	.2	.0	.0	.0	.2	4.2	2.7	1.7	.6	.0	.1		.0	90.8
S	.0	.7	2.9	.0	.0	.0	.0	3.6	3.1	4.0	.0	.0	.0		.0	89.3
SW	1.1	.0	4.5	.0	.0	.0	.0	4.5	9.0	2.2	.0	.0	.0		.0	84.3
W	20.6	.0	8.8	.0	.0	.0	.0	20.6	8.8	11.8	.0	.0	.0		.0	58.8
NW	4.2	.0	4.2	.0	.0	.0	.0	8.3	5.2	2.1	.0	.0	.0		.0	84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	3.6	.0	.0	.0	.0	.0	3.6	1.8	.0	.0	.0	.0		.0	94.6
TOT PCT	1.3	2.5	.7	.0	.0	.0	*	4.4	3.1	2.4	.2	.0	.1		.0	90.0
TOT OBS:	2996															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	1.6	2.5	.5	.0	.0	.0	.0	4.5	2.5	4.9	.3	.0	.1		.0	88.2
06609	1.1	2.3	.8	.0	.0	.0	.0	4.2	3.1	5.3	.0	.0	.2		.0	87.5
12615	1.2	2.7	.6	.0	.0	.0	.1	4.4	3.3	.2	.3	.0	.0		.0	91.7
18621	1.1	2.6	1.0	.0	.0	.0	.0	4.7	3.8	.3	.1	.0	.0		.0	91.2
TOT PCT	1.3	2.5	.7	.0	.0	.0	*	4.5	3.2	2.5	.2	.0	.1		.0	89.8
TOT OBS:	3045															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	1.9	.4	*	.0	.0		2.9	6.9	3.6	2.6	4.3	2.0	1.8	2.1	2.7	3.6
NE	1.7	12.2	5.3	.1	.1	.0		19.4	8.9	20.5	29.5	17.4	25.6	17.9	21.9	14.3	26.5
E	3.8	31.4	16.9	.2	.0	.0		52.1	9.4	51.0	47.7	57.3	50.1	54.3	44.4	53.6	44.1
SE	1.5	10.4	6.2	.2	.0	.0		18.4	9.6	18.1	14.5	15.3	14.2	18.9	24.2	20.6	17.9
S	.6	1.6	1.2	*	.0	.0		3.5	8.8	2.4	1.2	2.8	2.8	4.2	3.3	5.6	2.1
SW	.2	.4	.2	.0	.0	.0		.8	7.5	.5	.0	.3	.3	1.3	1.0	.8	2.1
W	.1	.2	.0	.0	.0	.0		.3	5.5	.5	.0	.2	.3	.0	.4	.4	.6
NW	.2	.6	.1	.0	.0	.0		.9	6.0	1.3	1.7	.7	.6	.4	1.1	.6	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.1	2.9	1.9	4.1	1.2	1.5	1.4	1.2
TOT OBS	372	2118	1086	19	2	0	3597		9.0	819	173	534	172	829	262	643	165
TOT PCT	10.3	58.9	30.2	.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	1.1	.1	.0	.0		2.9	6.9	3.5	3.7	1.9	2.9
NE	6.9	11.3	1.2	.1	.0		19.4	8.9	22.1	19.4	18.9	16.8
E	13.9	35.6	2.6	*	.0		52.1	9.4	50.4	55.5	51.9	51.7
SE	5.2	11.9	1.3	*	.0		18.4	9.6	17.5	15.0	20.2	20.0
S	1.2	2.0	.3	.0	.0		3.5	8.8	2.2	2.8	4.0	4.9
SW	.4	.4	*	.0	.0		.8	7.5	.4	.3	1.2	1.1
W	.2	.1	.0	.0	.0		.3	5.5	.4	.2	.1	.5
NW	.6	.3	.0	.0	.0		.9	6.0	1.4	.7	.5	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.2	2.4	1.3	1.4
TOT OBS	1141	2254	197	5	0	3597		9.0	992	706	1091	808
TOT PCT	31.7	62.7	5.5	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1855-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.2	7.8	59.5	30.0	.5	.0	.0	8.9	100.0	992
06609	2.4	7.5	58.6	30.7	.6	.1	.0	9.0	100.0	706
12615	1.3	11.5	56.5	28.0	.7	.0	.0	8.9	100.0	1091
18621	1.4	6.4	58.9	32.9	.2	.1	.0	9.5	100.0	808
TOT	64	308	2118	1086	19	2	0	9.0		3597
PCT	1.8	8.6	58.9	30.2	.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.0	1.0	.4		4.2
NE	5.5	4.7	5.3	1.0		3.8
E	18.0	18.3	15.4	3.2		3.7
SE	5.0	6.5	5.9	1.0		3.9
S	.9	1.1	1.1	.6		4.4
SW	*	.5	.2	.1		4.6
W	.0	*	.3	.1		6.2
NW	.1	.3	.2	.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.3	*		2.5
TOT OBS	683	718	649	144	2194	3.8
TOT PCT	31.1	32.7	29.6	6.6	100.0	

TABLE A

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.3	.1	*	*	.0	.0	2.5	
NE	.0	*	.2	.9	1.4	.4	.3	.1	.0	.1	13.2	
E	.2	.1	.5	2.3	3.4	1.1	.7	.1	.0	.1	46.3	
SE	*	.0	.2	.5	1.4	.7	.2	.1	.0	*	15.1	
S	*	*	.1	.2	.4	.2	*	.0	.0	.0	2.6	
SW	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.7	
W	.0	*	.0	*	.0	*	*	.0	.0	.0	.2	
NW	.0	.0	*	.0	.1	.0	.1	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.1	.0	*	*	.0	.0	.0	1.3	
TOT OBS	6	6	24	94	151	59	30	9	0	4	1811	2194
TOT PCT	.3	.3	1.1	4.3	6.9	2.7	1.4	.4	.0	.2	82.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	4.2	4.7	4.8	4.8	4.8	4.8	4.8	4.8
* OR >1000	10.4	11.6	11.8	11.8	11.8	11.8	11.8	11.8
* OR >600	13.7	15.4	15.9	16.0	16.0	16.0	16.0	16.0
* OR >300	14.4	16.4	17.0	17.0	17.1	17.1	17.1	17.1
* OR >150	14.5	16.7	17.2	17.3	17.3	17.3	17.3	17.3
* OR > 0	14.6	16.9	17.5	17.6	17.6	17.6	17.6	17.6
TOTAL	324	375	389	390	391	391	391	391

TOTAL NUMBER OF OBS: 2221 PCT FREQ NH <5/8: 82.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.9	14.5	26.6	21.6	13.4	6.2	4.7	3.8	3.2	.1	2318

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1855-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.1	.1	.2	.1	*	*	.0	.0	.0	.0	.5	
	NO PCP	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.4	.2	*	*	.0	.0	.0	.0	.9	
5<10	PCP	.1	.5	.8	.3	*	*	.1	*	.0	*	1.9	
	NO PCP	.2	2.9	7.2	2.1	.6	.1	.0	.1	.0	.5	13.4	
	TOT %	.3	3.4	8.0	2.4	.6	.1	.1	.1	.0	.5	15.3	
10+	PCP	.1	.4	1.0	.3	.1	*	.0	*	.0	*	1.9	
	NO PCP	2.4	13.5	44.5	15.1	3.1	.6	.2	.7	.0	1.3	81.4	
	TOT %	2.5	13.9	45.5	15.4	3.1	.6	.2	.7	.0	1.3	83.4	
	TOT OBS												2990
	TOT PCT	2.9	17.6	54.1	18.1	3.8	.7	.3	.8	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	*	*	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.2	*	*	*	.0	.0	.0		.4	
	11-21	*	.1	.2	.1	.0	.0	.0	.0	.0		.5	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	.4	.2	*	*	.0	.0	.0	.0	.9	
5<10	0-3	.1	.2	1.1	.2	.2	.0	*	*	.0	.5	2.4	
	4-10	.1	2.1	3.9	1.3	.1	.1	*	*	.0		7.7	
	11-21	*	.9	2.6	.8	.2	*	.0	.0	.0		4.5	
	22+	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.2	3.3	7.6	2.3	.6	.1	.1	.1	.0	.5	14.7	
10+	0-3	.5	1.5	2.7	1.3	.4	.2	.0	.2	.0	1.4	8.0	
	4-10	1.8	9.4	26.1	8.9	1.5	.3	.2	.6	.0		50.9	
	11-21	.2	3.5	14.2	5.4	1.1	.2	.0	*	.0		24.6	
	22+	.0	*	.1	.2	*	.0	.0	.0	.0		.3	
	TOT %	2.5	14.5	45.0	15.8	3.0	.6	.2	.8	.0	1.4	83.8	
	TOT OBS												3245
	TOT PCT	2.8	18.2	53.3	18.4	3.6	.7	.3	.9	.0	1.8	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1855-1974

AREA 0001 GEORGETOWN
8.8N 57.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.4	1.3	2.9	4.0	2.7	1.4	.7	.0	.4	14.1	85.9	552
06&09	.2	.2	.8	3.4	7.8	2.6	1.4	.4	.0	.4	17.1	82.9	502
12&15	.0	.5	1.2	5.4	6.3	2.6	1.2	.2	.0	.0	17.3	82.7	607
18&21	.5	.0	1.0	4.4	8.9	2.7	1.7	.3	.0	.0	19.5	80.5	631
TOT	6	6	24	94	155	61	33	9	0	4	392	1900	2292
PCT	.3	.3	1.0	4.1	6.8	2.7	1.4	.4	.0	.2	17.1	82.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.9	.5	1.7	17.8	79.1	888
06&09	.0	.0	.5	.6	14.1	84.9	661
12&15	.0	.2	.0	.7	15.3	83.8	975
18&21	.0	.3	.0	.5	11.4	87.8	770
TOT	1	12	7	30	488	2756	3294
PCT	*	.4	.2	.9	14.8	83.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	2.1	5.3	9.4	85.3	532
06&09	.2	1.2	4.9	12.9	82.2	489
12&15	.0	1.7	7.5	10.4	82.1	586
18&21	.5	1.5	6.4	13.5	80.1	614
TOT	6	36	135	257	1829	2221
PCT	.3	1.6	6.1	11.6	82.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.0	.0	.0	.0	2	.1
90/94	.0	.0	*	.9	1.9	.4	.2	.1	84	3.5
85/89	.0	.0	.0	.2	4.4	9.2	2.2	1.0	411	16.9
80/84	.0	.0	.0	.0	2.3	33.0	32.9	5.2	1787	73.4
75/79	.0	.0	.0	.0	*	.6	3.0	2.4	148	6.1
70/74	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	2	26	207	1052	931	216	2434	100.0
PCT	.0	.0	.1	1.1	8.5	43.2	38.2	8.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	*	.0	.0	.0	.0	.0	.0
.1	.6	1.3	1.1	.1	.0	.0	.1	.0	*
.4	2.6	9.5	3.3	.8	.1	*	*	.0	.2
2.0	12.3	41.7	12.2	2.5	.4	.2	.6	.0	1.4
.4	1.2	2.4	1.2	.4	.1	.1	.1	.0	.2
.0	*	*	.0	.0	.0	.0	.0	.0	.0
2.9	16.8	55.0	17.7	3.8	.6	.3	.8	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	82	79	77	72	81.9	984
06&09	85	84	83	82	79	77	74	81.3	705
12&15	95	93	89	83	79	77	75	83.3	1072
18&21	95	92	90	84	80	78	76	84.6	806
TOT	95	92	88	82	79	77	72	82.8	3567

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.6	43.6	44.7	9.1	81	649
06&09	.0	.0	1.0	34.6	53.9	10.5	82	503
12&15	.0	2.6	7.6	44.0	34.0	11.8	79	721
18&21	.0	1.5	22.2	48.9	23.4	4.0	75	595
TOT	0	28	209	1065	945	221	79	2468

SEPTEMBER

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1855-1974

AREA 0001 GEORGETOWN
6.8N 57.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	6	.0	.2
9/10	.0	.0	.0	.0	*	.4	.1	15	.0	.6
7/8	.0	.0	.0	.0	.2	.7	.3	31	.0	1.1
6	.0	.0	.0	.1	.4	.8	.1	39	.0	1.4
5	.0	.0	.0	.1	.8	.8	.0	45	.0	1.7
4	.0	.0	.1	.4	1.9	.3	.0	73	.0	2.7
3	.0	.0	.0	.8	2.7	.0	.0	96	.0	3.5
2	.0	.0	.3	2.7	2.9	.1	.0	161	*	5.9
1	.0	.0	.1	4.4	2.8	*	.0	203	.0	7.4
0	.0	.0	.4	12.8	2.5	.0	.0	429	.1	15.7
-1	.0	.0	.6	14.9	.9	.0	.0	446	*	16.3
-2	.0	.0	1.5	14.4	.3	.0	.0	441	.0	16.2
-3	.0	.0	2.1	8.7	.1	.0	.0	297	.0	10.9
-4	.0	.0	3.3	5.3	*	.0	.0	234	.0	8.6
-5	.0	.1	2.2	1.5	.1	.0	.0	107	.0	3.9
-6	.0	*	1.4	.5	.0	.0	.0	53	.0	1.9
-7/-8	*	.3	.8	.3	.0	.0	.0	38	.0	1.4
-9/-10	.0	*	.3	.0	.0	.0	.0	10	.0	.4
-11/-13	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	13	358	1824	426	89	14	2725	4	2721
PCT	*	.5	13.1	66.9	15.6	3.3	.5	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.2	.7	.0	.0	.0	.0	.9
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.0	.0	.0	.0	1.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.2	5.6	1.1	.0	.0	.0	6.8
3-4	.0	3.3	1.7	.0	.0	.0	5.0
5-6	.0	.3	.8	.0	.0	.0	1.1
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.1	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.8	3.7	.0	.1	.0	15.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	4.0	.2	.0	.0	.0	4.4
1-2	.4	16.5	4.4	.0	.0	.0	21.2
3-4	.0	11.2	7.8	.1	.0	.0	19.1
5-6	.0	2.8	6.2	.1	.0	.0	9.1
7	.0	.2	2.2	.0	.0	.0	2.4
8-9	.0	.1	.5	.0	.0	.0	.6
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	34.8	21.4	.2	.0	.0	57.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.6	.1	.0	.0	.0	1.4
1-2	.0	4.9	1.9	.0	.0	.0	6.8
3-4	.0	4.4	3.7	.0	.0	.0	8.1
5-6	.0	.9	3.3	.0	.0	.0	4.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.7	9.7	.1	.0	.0	21.2

PERIOD: (OVER-ALL) 1963-1974 SEPTEMBER AREA 0001 GEORGETOWN 8.8N 57.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.2	.0	.0	.0	.9
3-4	.0	.2	1.1	.0	.0	.0	1.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.7	.0	.0	.0	2.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	*	.0	.0	.0	.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.0	.0	.0	.0	.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.1	*	.0	.0	.0	.0	.1	
3-4	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.3	.0	.0	.0	.0	.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	7.1	.3	.0	.0	.0	10.1	
1-2	1.0	28.4	7.5	.0	.0	.0	36.9	
3-4	.0	19.3	14.3	.1	.0	.0	33.7	
5-6	.0	4.1	10.4	.1	.0	.0	14.6	
7	.0	.2	2.9	.0	.0	.0	3.1	
8-9	.0	.2	.7	.0	.1	.0	1.0	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								897
TOT PCT	3.7	59.4	36.5	.3	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	19.3	23.5	7.2	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1064	3
6-7	.2	2.3	9.6	8.7	2.8	.3	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	459	4
8-9	.0	.5	2.4	1.9	1.8	.5	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	5
10-11	.0	.5	.4	.7	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	5
12-13	.0	.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
>13	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
INDET	1.8	1.5	2.1	.9	.5	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	3
TOTAL	124	453	726	373	144	39	11	1	4	0	1	0	0	0	0	0	0	0	0	1876	3
PCT	6.6	24.1	38.7	19.9	7.7	2.1	.6	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1882-1974

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	1.5	1.5	.0	.0	.0	.0	5.7	4.2	.8	1.5	.0	.0	.0	.0	87.8
NE	1.9	2.4	.2	.0	.0	.0	.0	4.6	4.1	2.7	.5	.0	.0	.0	.0	88.5
E	1.4	2.1	.3	.0	.0	.0	.0	3.8	2.3	1.8	.6	.0	.0	.1	.0	91.8
SE	1.0	1.3	.5	.0	.0	.0	.0	2.8	1.7	2.2	.9	.0	.0	.0	.0	92.6
S	5.4	2.0	.0	.0	.0	.0	.0	7.4	3.4	.0	.0	.0	.0	.0	.0	89.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	5.5	.0	.0	.0	.0	.0	5.5	5.5	5.5	.0	.0	.0	.0	.0	83.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	.0	95.7
TOT PCT	1.5	2.0	.4	.0	.0	.0	.0	3.8	2.6	2.0	.6	.0	.0	*		91.3
TOT OBS:	2848															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.1	1.7	.8	.0	.0	.0	.0	4.4	1.7	3.9	.7	.0	.0	.1		89.7
06&09	2.3	2.1	.3	.0	.0	.0	.0	4.7	3.9	4.2	.3	.0	.0	.0		87.7
12&15	.6	2.0	.1	.0	.0	.0	.0	2.8	1.9	.4	1.0	.0	.0	.0		94.0
18&21	1.1	2.4	.3	.0	.0	.0	.0	3.9	3.0	.1	.3	.0	.0	.0		92.7
TOT PCT	1.5	2.1	.4	.0	.0	.0	.0	3.9	2.5	2.0	.6	.0	.0	*		91.2
TOT OBS:	2878															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	1.7	.2	*	.0	.0		2.4	6.0	3.1	3.8	2.9	4.0	2.0	2.3	1.3	2.5
NE	1.7	11.6	5.3	.1	.0	.0		18.7	8.9	18.6	25.5	19.4	23.3	17.6	17.1	16.8	20.6
E	3.2	31.3	21.9	.8	*	.0		57.2	10.2	57.7	55.9	63.2	54.3	57.6	46.4	56.8	52.3
SE	1.3	9.1	6.2	.3	.0	.0		16.9	10.0	16.2	11.6	10.8	14.3	17.5	24.1	20.5	22.2
S	.5	.7	.6	*	.0	.0		1.7	8.8	1.6	1.0	.7	.3	2.4	5.3	1.4	1.1
SW	*	.1	*	*	.0	.0		.2	8.3	*	.0	.2	.0	.1	1.4	.5	.0
W	.3	.3	*	.0	.0	.0		.6	5.0	.9	.0	.5	.0	.5	.2	.8	.0
NW	.3	.2	.0	.0	.0	.0		.5	3.8	.4	.7	.6	.3	.7	.9	.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.4	1.4	1.8	3.3	1.5	2.3	1.6	1.4
TOT OBS	325	1870	1163	44	1	0	3403		9.6	770	144	552	150	787	218	640	142
TOT PCT	9.6	55.0	34.2	1.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	.8	.1	.0	.0		2.4	6.0	3.2	3.1	2.1	1.5
NE	6.4	11.2	1.1	*	.0		18.7	8.9	19.7	20.3	17.5	17.5
E	12.4	40.0	4.8	.1	.0		57.2	10.2	57.4	61.3	55.1	56.0
SE	4.5	11.2	1.2	*	.0		16.9	10.0	15.5	11.5	18.9	20.8
S	.7	.7	.3	.0	.0		1.7	8.8	1.5	.6	3.0	1.3
SW	.2	.1	*	.0	.0		.2	8.3	*	.1	.4	.4
W	.4	.2	.0	.0	.0		.6	5.0	.8	.4	.5	.7
NW	.5	.1	.0	.0	.0		.5	3.8	.5	.5	.8	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	2.1	1.7	1.5
TOT OBS	963	2183	253	4	0	3403		9.6	914	702	1005	782
TOT PCT	28.3	64.1	7.4	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1882-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	9.0	54.0	34.6	1.0	.0	.0	9.5	100.0	914
06&09	2.1	4.7	57.8	33.6	1.7	.0	.0	9.7	100.0	702
12&15	1.7	11.1	53.3	32.4	1.4	.0	.0	9.2	100.0	1005
18&21	1.5	5.2	55.5	36.4	1.2	.1	.0	10.0	100.0	782
TOT	57	268	1870	1163	44	1	0	9.6		3403
PCT	1.7	7.9	55.0	34.2	1.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.4	.9	.1		3.9
NE	4.9	6.4	5.9	1.2		4.0
E	17.1	21.0	17.5	4.1		3.9
SE	4.4	5.3	4.7	1.2		3.9
S	.3	.3	.4	.2		4.7
SW	.0	.0	.2	*		6.5
W	.3	.2	.1	*		3.6
NW	.2	.1	.1	*		3.1
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.2	.0		2.4
TOT OBS	623	737	649	152	2161	3.9
TOT PCT	28.8	34.1	30.0	7.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.2	.3	.1	*	.0	.0	.0	1.4	
NE	.0	.1	.3	.8	1.3	.5	.4	.1	*	.0	14.9	
E	.3	.2	.8	2.8	3.9	1.9	1.0	.1	.1	.0	48.7	
SE	*	*	.3	.8	.9	.6	.3	*	.1	*	12.7	
S	.0	.0	.0	.3	.1	*	.1	.0	.0	*	.7	
SW	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.2	
W	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.6	
NW	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.0	.0	*	.0	.0	.0	1.2	
TOT OBS	6	6	35	106	141	68	40	8	4	1	1746	2161
TOT PCT	.3	.3	1.6	4.9	6.5	3.1	1.9	.4	.2	*	80.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	10.4	11.9	12.1	12.1	12.1	12.1	12.1	12.1
* OR >600	14.4	16.6	16.9	16.9	16.9	16.9	16.9	16.9
* OR >300	15.6	18.2	18.6	18.6	18.6	18.6	18.6	18.6
* OR >150	15.9	18.5	18.8	18.9	18.9	18.9	18.9	18.9
* OR > 0	16.1	18.7	19.1	19.2	19.2	19.2	19.2	19.2
TOTAL	350	408	416	417	417	417	417	417

TOTAL NUMBER OF OBS: 2177 PCT FREQ NH <5/8: 80.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.8	14.0	25.3	23.8	12.4	7.0	5.3	3.5	3.8	.1	2270

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1882-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.3	
2<5	NO PCP	.0	*	.3	.0	.0	.0	.0	.0	.0	*	.3	
	TOT %	.0	.1	.4	*	.0	.0	.0	.0	.0	*	.6	
	PCP	*	.2	.9	.3	.1	.0	*	.0	.0	.0	1.4	
5<10	NO PCP	.2	1.6	7.5	1.9	.2	*	.0	.2	.0	.2	11.8	
	TOT %	.3	1.8	8.4	2.2	.2	*	*	.2	.0	.2	13.3	
	PCP	.1	.5	1.1	.1	.1	.0	.0	.0	.0	.0	1.9	
10+	NO PCP	1.9	15.3	48.4	13.8	1.5	.2	.6	.4	.0	1.4	83.6	
	TOT %	2.0	15.8	49.5	14.0	1.6	.2	.6	.4	.0	1.4	85.5	
	TOT OBS												2836
	TOT PCT	2.3	17.8	58.7	16.4	1.8	.2	.6	.6	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.2	.1	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.3	.2	.0	.0	.0	.0	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	*	.2	
2<5	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.3	*	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.5	*	.0	.0	.0	.0	.0	*	.6	
	0-3	.1	.2	.7	.2	*	.0	*	.1	.0	.2	1.7	
5<10	4-10	.1	1.0	4.2	.9	*	*	.0	*	.0		6.3	
	11-21	.0	.4	2.6	.9	.2	.0	.0	.0	.0		4.1	
	22+	.0	*	.3	*	.0	*	.0	.0	.0		.4	
	TOT %	.3	1.6	7.8	2.1	.2	.1	*	.1	.0	.2	12.4	
	0-3	.4	1.3	2.3	1.0	.5	*	.3	.2	.0	1.4	7.5	
10+	4-10	1.4	10.3	28.2	8.1	.6	.1	.2	.2	.0		49.2	
	11-21	.2	4.5	18.7	5.0	.4	*	*	.0	.0		28.9	
	22+	*	.1	.4	.2	*	.0	.0	.0	.0		.7	
	TOT %	2.0	16.1	49.6	14.4	1.5	.2	.6	.4	.0	1.4	86.3	
	TOT OBS												3084
	TOT PCT	2.3	18.0	58.2	16.7	1.8	.3	.6	.5	.0	1.6	100.0	

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1882-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	2.3	4.9	6.8	2.1	.9	.8	.0	.2	18.3	81.7	531
06&09	.2	.2	1.0	3.1	6.0	2.3	1.0	.2	.4	.0	14.4	85.6	513
12&15	.2	.2	1.9	4.7	4.8	3.6	2.1	.3	.0	.0	17.8	82.2	580
18&21	.5	.5	1.3	6.0	7.6	4.2	2.9	.2	.3	.0	23.5	76.5	618
TOT	6	6	36	106	142	70	40	8	4	1	419	1823	2242
PCT	.3	.3	1.6	4.7	6.3	3.1	1.8	.4	.2	*	18.7	81.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.9	.1	.7	15.8	82.0	802
06&09	.0	.3	.2	.6	11.0	87.9	661
12&15	.0	.7	.0	.4	13.8	85.1	912
18&21	.0	.3	.0	.7	8.4	90.7	739
TOT	3	17	2	19	388	2685	3114
PCT	.1	.5	.1	.6	12.5	86.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	2.7	8.0	10.9	81.1	513
06&09	.2	1.4	4.9	10.1	85.0	494
12&15	.2	2.5	7.7	10.6	81.7	568
18&21	.5	2.3	8.5	15.4	76.1	602
TOT	6	49	160	259	1758	2177
PCT	.3	2.3	7.3	11.9	80.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	5	.2
90/94	.0	.0	.0	.6	1.9	.6	.3	*	81	3.5
85/89	.0	.0	*	.2	3.6	8.6	2.6	1.0	370	16.0
80/84	.0	.0	.0	.1	1.7	30.0	35.8	7.0	1727	74.7
75/79	.0	.0	.0	.0	.0	.6	2.9	2.1	129	5.6
70/74	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	1	24	170	919	964	235	2313	100.0
PCT	.0	.0	*	1.0	7.3	39.7	41.7	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.1	.0	.1	.0	.0	.0	.0	.0
*	.5	1.9	.9	*	.0	.0	.0	.0	.2
.2	2.4	9.1	3.3	.4	*	.2	.2	.0	.2
1.6	13.5	45.8	10.8	1.0	*	.3	.3	.0	1.3
.3	.8	3.1	.9	.1	.1	.1	.1	.0	.1
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2.2	17.2	60.0	15.8	1.7	.1	.6	.6	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	87	84	82	79	77	70	81.8	908
06&09	89	85	83	81	79	77	76	81.2	705
12&15	95	92	89	83	80	77	74	83.3	1002
18&21	95	93	91	84	80	77	76	84.5	779
TOT	95	92	88	82	79	77	70	82.7	3394

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	2.4	36.9	49.5	10.9	81	594
06&09	.0	.2	1.2	28.1	57.2	13.3	83	495
12&15	.0	2.4	6.3	42.2	39.0	10.2	79	669
18&21	.0	1.0	19.1	49.7	23.7	6.4	76	577
TOT	0	25	172	927	975	236	80	2335

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1882-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	.3	9	.0	.3
9/10	.0	.0	*	.0	.4	.2	15	.0	.6
7/8	.0	.0	*	.2	1.2	.7	41	.0	1.6
6	.0	.0	*	.2	.6	.0	21	.0	.8
5	.0	*	.1	.8	.6	.0	41	*	1.5
4	.0	.0	.3	1.9	.4	.0	69	.0	2.7
3	.0	.1	.6	2.4	*	.0	82	.0	3.2
2	.0	.1	2.4	3.3	*	.0	152	*	5.8
1	.0	*	5.0	2.4	.1	.0	195	*	7.5
0	.0	.4	13.5	1.8	.0	.0	407	.2	15.5
-1	.0	.9	13.9	.5	.0	.0	398	.2	15.2
-2	.0	2.2	15.7	.3	.0	.0	473	.0	18.2
-3	.0	2.0	7.8	.1	*	.0	258	.0	9.9
-4	.0	2.8	4.6	*	.0	.0	191	.0	7.4
-5	*	2.4	2.2	*	.0	.0	120	.0	4.6
-6	.1	1.5	.4	*	.0	.0	52	.0	2.0
-7/-8	.3	1.1	.6	.1	.0	.0	54	.0	2.1
-9/-10	.1	.3	*	.0	.0	.0	10	.0	.4
-11/-13	.1	.1	*	.0	.0	.0	5	.0	.2
TOTAL	14		1746		87			12	2581
		359		370		17	2593		
PCT	.5	13.8	67.3	14.3	3.4	.7	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.2	.6	.0	.0	.0	.0	.8
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	.1	.0	.0	.0	2.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	.0	.0	.0	.0	1.9
1-2	.5	6.3	1.4	.0	.0	.0	8.1
3-4	.0	3.5	3.3	.0	.0	.0	6.8
5-6	.0	.7	1.5	.1	.0	.0	2.3
7	.0	.3	.1	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	12.3	6.5	.1	.0	.0	19.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.7	.1	.0	.0	.0	3.1
1-2	.6	13.7	4.1	.0	.0	.0	18.4
3-4	.0	10.6	10.9	.0	.0	.0	21.5
5-6	.1	2.8	7.5	.4	.0	.0	10.8
7	.0	.5	2.6	.2	.0	.0	3.3
8-9	.0	.1	.8	.0	.0	.0	.9
10-11	.0	.1	.2	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	30.6	26.1	.6	.0	.0	58.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.0
1-2	*	3.4	1.7	.0	.0	.0	5.2
3-4	.0	3.3	2.9	.0	.0	.0	6.3
5-6	.0	.8	2.3	*	.0	.0	3.1
7	.0	.1	.5	*	.0	.0	.7
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.3	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.8	7.5	.1	.0	.0	16.6

PERIOD: (OVER-ALL) 1963-1974 OCTOBER AREA 0001 GEORGETOWN 8.9N 57.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.6	.0	.0	.0	.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.1	.1	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.2	.0	.0	.0	.0	.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.0	.0	.0	.0	.0	.2	
1-2	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	*	.0	.0	.0	.0	*	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.2	.0	.0	.0	.0	.3	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	5.6	.1	.0	.0	.0	8.0	
1-2	1.9	24.4	7.5	.0	.0	.0	33.8	
3-4	.0	17.8	17.5	.0	.0	.0	35.3	
5-6	.1	4.7	11.4	.6	.0	.0	16.8	
7	.0	1.0	3.1	.2	.0	.0	4.4	
8-9	.0	.1	.9	.0	.0	.0	1.0	
10-11	.0	.5	.2	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	54.1	40.7	.8	.0	.0	100.0	859

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.8	16.2	22.0	6.5	1.2	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	967	3
6-7	.3	1.8	11.0	11.5	3.7	.6	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	564	5
8-9	.1	.2	1.6	3.0	2.9	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	6
10-11	.0	.5	.3	.7	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	5
12-13	.0	.0	.6	.3	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
>13	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
UNDET	1.4	.7	1.2	.5	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
TOTAL	123	363	686	427	167	58	37	5	1	0	0	0	0	0	0	0	0	0	0	1867	4
PCT	6.6	19.4	36.7	22.9	8.9	3.1	2.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1865-1973

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	5.6	1.9	.0	.0	.0	.0	10.3	.0	1.9	.0	.0	.0	.0	.0	87.9
NE	1.6	3.9	1.7	.0	.0	.0	.0	7.2	3.6	1.6	1.3	.0	.2	.0	.0	86.2
E	2.1	2.8	.7	.0	.0	.0	.0	5.5	3.7	1.3	.9	.0	.3	.0	.0	88.3
SE	2.3	2.4	.1	.0	.0	.0	.0	4.8	3.0	1.7	.3	.0	.0	.0	.0	90.5
S	7.8	9.3	2.3	.0	.0	.0	.0	17.1	10.1	.0	.0	.0	.0	.0	.0	72.9
SW	15.6	.0	3.1	.0	.0	.0	.0	15.6	18.8	.0	.0	.0	.0	.0	.0	65.6
W	.0	21.1	.0	.0	.0	.0	.0	21.1	15.8	.0	.0	.0	.0	.0	.0	63.2
NW	10.3	.0	.0	.0	.0	.0	.0	10.3	2.6	.0	.0	.0	.0	.0	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	.0	4.8	4.8	4.8	.0	.0	.0	.0	.0	85.7
TOT PCT	2.2	3.2	.9	.0	.0	.0	.0	6.2	3.7	1.4	.9	.0	.2	.0		87.7
TOT OBS:	2496															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.1	2.9	1.1	.0	.0	.0	.0	4.9	2.5	2.7	1.4	.0	.5	.0	.0	87.9
06&09	3.0	4.6	.5	.0	.0	.0	.0	8.1	3.7	2.5	.0	.0	.0	.0	.0	86.0
12&15	2.6	2.5	1.0	.0	.0	.0	.0	6.1	3.2	.4	1.3	.0	.1	.0	.0	88.8
18&21	2.1	2.8	.8	.0	.0	.0	.0	5.7	5.2	.3	.6	.0	.3	.0	.0	88.0
TOT PCT	2.2	3.1	.9	.0	.0	.0	.0	6.2	3.7	1.4	.9	.0	.2	.0	.0	87.7
TOT OBS:	2520															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.4	.5	.0	.0	.0		2.1	8.5	1.9	2.8	3.3	1.5	2.2	.7	1.7	2.1
NE	1.1	14.1	9.7	.4	*	.0		25.4	10.3	26.8	32.2	27.7	32.7	22.9	25.1	20.3	28.0
E	2.7	29.0	24.8	1.1	*	.0		57.7	10.7	56.9	55.2	56.4	56.0	60.6	54.1	58.4	58.3
SE	.8	6.6	4.3	.3	.0	.0		12.0	10.0	11.7	7.5	9.7	8.0	12.4	15.4	15.4	10.5
S	.3	.6	.3	.0	.0	.0		1.1	7.8	.9	.6	.9	1.2	1.1	.5	2.1	.3
SW	*	.2	.1	.0	.0	.0		.3	7.1	.2	.0	.5	.0	.0	.7	.6	.0
W	*	.1	*	.0	.0	.0		.1	9.5	.1	.0	.4	.0	.0	.0	.3	.0
NW	.1	.2	*	.0	.0	.0		.3	6.5	.4	.3	.4	.0	.3	.0	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.0	1.3	.7	.6	.4	3.4	.8	.7
TOT OBS	198	1691	1286	56	2	0	3233		10.3	712	159	539	163	715	203	598	144
TOT PCT	6.1	52.3	39.8	1.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	1.1	.1	.0	.0		2.1	8.5	2.1	2.9	1.9	1.8
NE	5.9	17.1	2.2	.1	.0		25.4	10.3	27.8	28.9	23.4	21.8
E	11.6	40.1	5.7	.3	.0		57.7	10.7	56.6	56.3	59.2	58.4
SE	3.1	7.9	1.0	*	.0		12.0	10.0	11.0	9.3	13.1	14.5
S	.5	.6	*	.0	.0		1.1	7.8	.9	1.0	1.0	1.8
SW	.2	.1	.0	.0	.0		.3	7.1	.2	.4	.2	.5
W	*	.1	*	.0	.0		.1	9.5	.1	.3	.0	.2
NW	.2	*	*	.0	.0		.3	6.5	.4	.3	.2	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.0	.7	1.1	.8
TOT OBS	757	2170	293	13	0	3233		10.3	871	702	918	742
TOT PCT	23.4	67.1	9.1	.4	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1865-1973

AREA 0001 GEORGETOWN
8.9N 57.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	5.1	54.3	37.7	1.8	.1	.0	10.1	100.0	871
06&09	.7	3.6	54.6	39.0	2.1	.0	.0	10.6	100.0	702
12&15	1.1	7.3	49.6	40.3	1.7	.0	.0	10.1	100.0	918
18&21	.8	4.3	51.2	42.3	1.2	.1	.0	10.5	100.0	742
TOT	30	168	1691	1286	56	2	0	10.3		3233
PCT	.9	5.2	52.3	39.8	1.7	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.4	.8	.2		4.2
NE	6.6	7.9	7.8	1.4		4.0
E	16.1	21.1	16.8	5.0		3.9
SE	3.4	3.7	3.7	1.4		4.1
S	.1	.4	.5	.4		5.6
SW	.1	.1	.2	.1		5.4
W	.1	.0	.0	.1		4.0
NW	.0	.1	.3	.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.3	.1		4.1
TOT OBS	537	663	598	169	1967	4.0
TOT PCT	27.3	33.7	30.4	8.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <=4/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.2	.1	.2	.0	.0	.0	1.5	
NE	.1	.1	.5	1.5	2.5	.7	.2	.1	.1	.1	18.1	
E	.2	.2	1.0	2.4	5.3	1.8	1.1	.1	.1	.0	46.9	
SE	.0	.0	.2	.4	1.2	.4	.2	.0	.0	.0	9.6	
S	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.8	
SW	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.2	
W	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.1	*	*	.1	.1	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	5	4	37	96	188	62	37	3	3	1	1531	1967
TOT PCT	.3	.2	1.9	4.9	9.6	3.2	1.9	.2	.2	.1	77.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	4.9	5.4	5.5	5.5	5.5	5.5	5.5	5.5
* OR >1000	12.5	14.5	14.8	14.9	14.9	14.9	14.9	14.9
* OR >600	16.5	19.3	19.7	19.8	19.8	19.8	19.9	19.9
* OR >300	17.8	21.2	21.6	21.7	21.7	21.7	21.8	21.8
* OR >150	17.8	21.4	21.8	21.9	21.9	21.9	22.0	22.0
* OR > 0	17.9	21.5	22.0	22.1	22.1	22.2	22.2	22.2
TOTAL	354	425	435	437	437	438	439	439

TOTAL NUMBER OF OBS: 1975 PCT FREQ NH <5/8: 77.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	13.5	23.1	22.7	13.7	7.4	5.9	4.0	4.8 *	2068

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1865-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.1	*	.0	.0	.0	*	.0	.0	.2	
<1/2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.1	.1	.0	.0	.0	*	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.3	.1	*	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	*	.7	.3	*	.0	.0	.0	.0	.0	1.0	
	PCP	*	1.0	1.1	.3	.1	.1	.0	.0	.0	.0	2.5	
5<10	NO PCP	.2	2.9	5.9	1.0	.1	*	.0	*	.0	*	10.2	
	TOT %	.2	3.9	7.0	1.3	.2	.1	.0	*	.0	*	12.7	
	PCP	.1	.7	1.6	.2	.1	.0	*	.0	.0	*	2.7	
10+	NO PCP	1.7	19.4	48.3	10.6	1.0	.3	.1	.3	.0	.8	82.5	
	TOT %	1.9	20.1	49.9	10.8	1.0	.3	.2	.3	.0	.8	85.2	
	TOT OBS												2485
	TOT PCT	2.1	24.2	58.2	12.5	1.3	.3	.2	.4	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	*	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	.1	.0	.0	.0	*	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	.0	.4	.1	.0	.0	.0	.0	.0		.5	
	11-21	.0	*	.2	.2	*	.0	.0	.0	.0		.4	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	*	.7	.3	*	.0	.0	.0	.0	.0	1.1	
	0-3	.0	.2	.4	*	.0	.0	.0	.0	.0	*	.6	
5<10	4-10	.2	2.3	3.6	.6	.1	*	.0	.0	.0		6.8	
	11-21	.1	1.0	2.7	.5	.1	*	.0	*	.0		4.4	
	22+	.0	*	.2	*	.0	.0	.0	.0	.0		.3	
	TOT %	.2	3.6	6.9	1.2	.2	.1	.0	*	.0	*	12.2	
	0-3	.1	.9	2.2	.9	.3	*	*	.1	.0	1.0	5.5	
10+	4-10	1.4	11.5	24.4	6.2	.5	.1	.1	.2	.0		44.3	
	11-21	.3	7.9	22.6	3.7	.2	.1	*	.0	.0		34.8	
	22+	.0	.3	.6	.2	.0	.0	.0	.0	.0		1.1	
	TOT %	1.8	20.6	49.7	10.9	1.0	.2	.1	.3	.0	1.0	85.7	
	TOT OBS												2721
	TOT PCT	2.1	24.5	57.9	12.4	1.3	.3	.1	.3	.0	1.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1865-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.0	1.7	3.6	9.1	3.0	1.7	.4	.0	.0	19.6	80.4	474
06&09	.2	.2	1.6	5.5	7.8	2.2	1.2	.0	.2	.0	19.0	81.0	490
12&15	.4	.2	1.6	4.7	10.3	3.4	3.0	.2	.0	.0	23.7	76.3	507
18&21	.2	.3	2.2	5.2	9.7	3.6	1.6	.0	.3	.2	23.3	76.7	580
TOT	5	4	37	98	189	63	36	3	3	1	441	1610	2051
PCT	.2	.2	1.8	4.8	9.2	3.1	1.9	.1	.1	*	21.5	78.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	1.3	.0	1.6	15.2	81.9	706
06&09	.2	.0	.3	.5	11.2	87.8	615
12&15	.5	.9	.0	1.3	12.5	84.7	753
18&21	.0	.4	.1	1.0	10.0	88.4	671
TOT	6	19	3	31	337	2349	2745
PCT	.2	.7	.1	1.1	12.3	85.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<1&0 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	2.0	5.9	14.5	79.5	454
06&09	.2	2.1	8.5	11.5	80.0	471
12&15	.6	2.7	8.0	16.7	75.3	490
18&21	.2	2.9	8.8	15.2	76.1	560
TOT	6	48	155	287	1533	1975
PCT	.3	2.4	7.8	14.5	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.3	1.0	.2	.2	.0	33	1.7
85/89	.0	.0	.0	.1	2.2	6.8	2.0	.7	234	11.7
80/84	.0	.0	.0	.0	2.1	31.5	36.7	6.3	1531	76.6
75/79	.0	.0	.0	.0	.1	.9	4.3	4.6	197	9.9
70/74	.0	.0	.0	.0	.0	.0	.0	.2	3	.2
TOTAL	0	0	0	9	106	787	863	234	1999	100.0
PCT	.0	.0	.0	.5	5.3	39.4	43.2	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
*	.5	.6	.4	.0	.0	.0	.0	.0	.2
.1	2.3	5.9	2.8	.3	.1	.0	.1	.0	.2
1.5	18.5	46.7	8.4	.9	.2	.0	.2	.0	.2
.5	2.5	5.4	.9	.1	.1	.1	*	.0	.2
.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
2.2	23.9	58.6	12.6	1.2	.3	.1	.3	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	84	81	78	76	73	81.3	966
06&09	87	84	83	81	78	76	68	80.7	701
12&15	95	93	88	82	78	75	70	82.6	917
18&21	93	91	88	83	79	76	75	83.5	738
TOT	95	90	86	82	78	76	68	82.0	3222

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.2	30.7	53.5	13.3	82	495
06&09	.0	.0	.4	32.8	52.8	13.9	83	466
12&15	.0	.9	4.8	43.3	38.3	12.7	80	545
18&21	.0	.6	19.5	49.7	29.5	6.7	77	511
TOT	0	9	108	795	871	234	81	2017

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1865-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.0	*	.0	2	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	*	3	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.1	9	.0	.4
7/8	.0	.0	.0	.0	*	.1	.6	.0	17	.0	.8
6	.0	.0	.0	.0	.1	.2	.6	.0	19	.0	.8
5	.0	.0	.0	.0	.2	1.1	.5	*	43	.0	1.9
4	.0	.0	.0	.0	.4	1.6	.1	.0	46	.0	2.0
3	.0	.0	.0	.3	.9	1.8	.1	.0	70	.0	3.1
2	.0	.0	.0	.1	3.3	2.3	.0	.0	129	.0	5.7
1	.0	.0	.0	.4	6.6	1.7	.0	.0	198	*	8.8
0	*	.0	.0	1.1	14.7	1.2	.0	.0	382	.4	16.7
-1	.0	.0	.0	2.3	15.2	.4	.0	.0	402	.3	17.6
-2	.0	.0	.0	3.8	12.3	.1	.0	.0	365	.2	16.0
-3	.0	.0	*	3.9	5.3	.0	.0	.0	207	.0	9.2
-4	.0	.0	.2	4.2	2.9	.0	.0	.0	165	.0	7.4
-5	.0	.0	.2	2.8	1.2	.0	.0	.0	96	.0	4.3
-6	.0	.0	.1	1.4	.4	.0	.0	.0	42	.0	1.9
-7/-8	.0	.0	.6	.9	.4	.0	.0	.0	43	.0	1.9
-9/-10	.0	.0	.1	*	.0	.0	.0	.0	4	.0	.2
-11/-13	.0	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1		29		1442		47			21	2223
		1		480		239		5	2244		
PCT	*	*	1.3	21.4	64.3	10.7	2.1	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.1	.0	.0	.0	1.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.2
1-2	.2	6.2	2.0	.0	.0	.0	8.4
3-4	.0	3.9	4.0	.0	.0	.0	8.0
5-6	.0	.6	3.2	.2	.0	.0	4.0
7	.0	.4	.7	.1	.0	.0	1.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.0	10.6	.3	.0	.0	23.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.6	12.4	3.1	.0	.0	.0	16.1
3-4	.1	10.5	13.1	.0	.0	.0	23.8
5-6	.0	3.3	10.3	.3	.0	.0	14.0
7	.0	.4	4.5	.0	.0	.0	4.8
8-9	.0	.1	.4	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	27.7	31.4	.3	.0	.0	60.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	*	.0	.0	.0	.0	.2
1-2	*	3.2	.4	.0	.0	.0	3.7
3-4	.0	2.8	2.4	.0	.0	.0	5.2
5-6	.0	.3	2.6	.0	.0	.0	2.9
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.4	6.5	.0	.0	.0	13.1

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

TABLE 16 (CONT)

AREA CC01 GEORGETOWN 8.9N 57.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.2	.3	.0	.0	.0	.0	.5
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.1	.0	.0	.0	.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	*	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.1	2.3	.1	.0	.0	.0	3.4	
1-2	1.1	22.8	5.7	.0	.0	.0	29.6	
3-4	.1	17.6	19.8	.0	.0	.0	37.5	
5-6	.0	4.4	16.2	.5	.0	.0	21.1	
7	.0	.8	6.0	.1	.0	.0	6.9	
8-9	.0	.1	.9	.0	.0	.0	1.1	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	48.0	49.1	.7	.0	.0	100.0	754

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	15.6	20.8	8.6	2.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	885	3
6-7	.2	1.7	10.2	13.0	4.1	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	5
8-9	.0	.5	2.0	3.0	2.2	1.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	6
10-11	.0	.3	.5	.1	.5	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
12-13	.0	.0	.4	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
>13	.0	.0	.0	.4	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
INDET	1.2	1.7	1.3	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	3
TOTAL	72	347	613	450	167	50	24	11	8	0	0	0	0	0	0	0	0	0	0	1742	4
PCT	4.1	19.9	35.2	25.8	9.6	2.9	1.4	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	1.0	.7	2.3	.0	.0	.0	.0	4.0	5.6	.0	.0	.0	2.6	1.3		86.5
NE	2.4	3.4	.7	.0	.0	.0	.0	6.5	4.3	.4	.1	.0	.3	.0		88.4
E	2.1	2.8	1.0	.0	.0	.0	.0	5.9	5.0	.6	1.1	.0	.2	.1		87.4
SE	5.4	6.0	.6	.0	.0	.0	.0	12.1	9.6	.0	.0	.0	.0	.0		84.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	.0	14.0	.0	.0	.0	.0	.0	14.0	.0	.0	.0	.0	.0	.0		86.0
NW	.0	18.8	.0	.0	.0	.0	.0	18.8	3.1	.0	.0	.0	.0	.0		78.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0		92.3
TOT PCT	2.3	3.2	.9	.0	.0	.0	.0	6.3	4.7	.5	.6	.0	.3	.1		87.7
TOT OBS:	2389															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	2.9	.2	.0	.0	.0	.0	5.0	4.3	.9	.7	.0	.5	.0		88.9
06&09	4.1	3.2	1.4	.0	.0	.0	.0	8.7	4.6	1.1	.2	.0	.2	.0		85.4
12&15	1.8	3.5	.8	.0	.0	.0	.0	6.1	5.0	.0	.8	.0	.2	.2		87.7
18&21	1.6	3.1	1.1	.0	.0	.0	.0	5.8	4.8	.2	.6	.0	.3	.2		88.3
TOT PCT	2.3	3.2	.9	.0	.0	.0	.0	6.4	4.7	.5	.6	.0	.3	.1		87.6
TOT OBS:	2404															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.8	.7	.1	.0	.0		3.0	9.0	3.7	2.7	3.8	2.2	2.6	2.3	2.7	.8
NE	.8	16.6	21.8	1.3	.0	.0		40.5	12.1	41.6	42.8	42.6	40.2	39.1	38.4	39.3	38.5
E	.8	18.6	29.7	1.8	.0	.0		51.0	12.7	50.0	48.3	48.8	45.5	52.8	49.2	54.1	50.2
SE	.2	2.0	1.6	.1	.0	.0		3.9	10.4	3.4	3.3	2.9	4.9	4.4	7.8	3.1	6.0
S	*	.2	.0	.0	.0	.0		.2	5.3	.1	.0	.1	.0	.3	.7	.1	.4
SW	.1	.2	*	.0	.0	.0		.3	7.0	.4	.8	*	.4	.4	.7	.0	.4
W	.0	.3	.1	.0	.0	.0		.4	9.9	.2	.8	.3	4.5	.1	.3	.0	1.6
NW	.1	.2	.0	.0	.0	.0		.3	4.9	.2	1.2	.2	1.3	.2	.0	*	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.5	.0	1.0	.9	.2	.7	.7	.8
TOT OBS	85	1141	1548	93	0	0	2867		12.1	626	121	520	112	618	151	595	124
TOT PCT	3.0	39.8	54.0	3.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	1.7	.2	.0	.0		3.0	9.0	3.5	3.6	2.6	2.4
NE	4.6	28.7	7.2	.1	.0		40.5	12.1	41.8	42.2	38.9	39.2
E	5.0	34.5	11.2	.2	.0		51.0	12.7	49.8	48.3	52.0	53.4
SE	.8	2.6	.4	.0	.0		3.9	10.4	3.4	3.3	5.1	3.6
S	.2	*	.0	.0	.0		.2	5.3	.1	.1	.4	.2
SW	.2	.1	*	.0	.0		.3	7.0	.4	.1	.5	.1
W	.2	.1	.1	.0	.0		.4	9.9	.3	1.1	.1	.3
NW	.2	.1	.0	.0	.0		.3	4.9	.3	.4	.1	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.4	.9	.3	.7
TOT OBS	367	1944	550	6	0	2867		12.1	747	632	769	719
TOT PCT	12.8	67.8	19.2	.2	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
9.0N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	2.5	43.2	50.2	3.6	.0	.0	11.9	100.0	747
06&09	.9	1.3	40.3	55.1	2.4	.0	.0	12.0	100.0	632
12&15	.3	3.3	40.7	52.4	3.4	.0	.0	12.1	100.0	769
18&21	.7	2.4	34.8	58.7	3.5	.0	.0	12.7	100.0	719
TOT	16	69	1141	1548	93	0	0	12.1		2867
PCT	.6	2.4	39.8	54.0	3.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.7	.9	.3		3.8
NE	10.1	12.4	12.8	3.9		4.2
E	14.9	17.0	16.3	5.1		4.0
SE	.7	.6	1.4	.5		4.8
S	*	.1	.1	.0		3.9
SW	.0	.0	.1	.0		6.2
W	.0	.0	.1	.0		6.0
NW	.1	.1	.0	.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.3	.2	.0		3.5
TOT OBS	509	584	596	186	1875	4.1
TOT PCT	27.1	31.1	31.8	9.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.1	.2	.2	.1	.0	.0	.0	2.5	
NE	.2	.1	.6	2.0	3.8	1.6	.7	.1	.0	.1	30.0	
E	.2	.0	.8	2.7	5.1	1.7	.6	.2	.1	.1	42.0	
SE	*	.0	*	.4	.5	.2	.0	.1	.1	.0	1.9	
S	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	
SW	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	9	2	27	97	180	70	26	7	2	4	1451	1875
TOT PCT	.5	.1	1.4	5.2	9.6	3.7	1.4	.4	.1	.2	77.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.6	.7	.7	.7	.7	.7	.7	.7
* OR >3500	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	5.1	5.7	5.8	5.8	5.8	5.8	5.8	5.8
* OR >1000	13.2	15.2	15.4	15.5	15.5	15.5	15.5	15.5
* OR >600	17.4	20.3	20.6	20.7	20.7	20.7	20.7	20.7
* OR >300	18.3	21.5	22.0	22.1	22.1	22.1	22.1	22.1
* OR >150	18.3	21.6	22.1	22.2	22.2	22.2	22.2	22.2
* OR > 0	18.5	22.1	22.6	22.7	22.7	22.7	22.7	22.7
TOTAL	348	415	425	427	427	427	427	427

TOTAL NUMBER OF OBS: 1880

PCT FREQ NH <5/8: 77.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.6	13.4	23.7	22.2	13.1	8.2	5.3	4.2	5.0	.4	1974

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

AREA 0001 GEORGETOWN
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	*	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	*	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.1	.1	.5	.1	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.1	.3	.7	.2	.0	.0	.0	.0	.0	.0	1.3	
	PCP	.1	1.5	1.2	.2	.0	.0	.1	.1	.0	.0	3.1	
5<10	NO PCP	.4	4.2	5.5	.2	.0	.2	.3	.1	.0	.0	10.8	
	TOT %	.5	5.7	6.7	.3	.0	.2	.4	.2	.0	.0	13.9	
	PCP	*	.8	1.6	.2	.0	.0	.0	.0	.0	.0	2.6	
10+	NO PCP	2.5	32.9	42.2	2.7	.1	.1	.1	.2	.0	.5	81.3	
	TOT %	2.6	33.7	43.7	2.8	.1	.1	.1	.2	.0	.5	83.8	
	TOT OBS												2383
	TOT PCT	3.2	39.9	51.8	3.4	.1	.2	.5	.3	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.4	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.1	*	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.1	*	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.2	*	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.1	.1	.1	.2	.0	.0	.0	.0	.0		.5	
	11-21	.0	.2	.5	.0	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.7	.2	.0	.0	.0	.0	.0	.0	1.3	
	0-3	.1	.1	.1	.1	*	.1	.0	.1	.0	.0	.5	
5<10	4-10	.3	2.2	2.6	.1	*	.1	.2	.1	.0		5.6	
	11-21	*	3.0	3.4	.2	.0	*	.2	.0	.0		6.7	
	22+	*	.1	.3	*	.0	.0	.0	.0	.0		.5	
	TOT %	.4	5.4	6.4	.4	.1	.2	.3	.2	.0	.0	13.4	
	0-3	.3	.7	.6	.2	.0	.0	.0	*	.0	.6	2.4	
10+	4-10	1.5	13.9	15.6	1.5	.1	.1	.1	.1	.0		92.9	
	11-21	.7	18.3	25.7	1.2	.0	.0	.0	.0	.0		45.9	
	22+	*	1.1	1.7	*	.0	.0	.0	.0	.0		2.9	
	TOT %	2.6	34.0	43.6	2.9	.1	.1	.1	.1	.0	.6	84.2	
	TOT OBS												2569
	TOT PCT	3.2	40.0	51.5	3.5	.2	.3	.4	.3	.0	.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1859-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.0	1.3	4.3	7.4	2.2	.9	.0	.0	.2	17.0	83.0	447
06&09	.9	.0	1.5	4.1	10.7	4.8	.4	.0	.2	.0	22.6	77.4	460
12&15	.2	.2	1.9	5.4	10.3	2.6	2.1	.2	.2	.4	23.6	76.4	466
18&21	.2	.2	.9	6.3	9.4	4.5	1.7	1.0	.0	.2	24.3	75.7	576
TOT	9	2	27	99	184	70	26	7	2	4	430	1519	1949
PCT	.5	.1	1.4	5.1	9.4	3.6	1.3	.4	.1	.2	22.1	77.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.2	.5	2.2	15.6	80.5	647
06&09	.2	.2	.2	1.5	12.3	85.7	593
12&15	.0	.9	.7	1.0	15.5	81.8	670
18&21	.0	.6	.3	.4	9.9	88.7	675
TOT	1	19	11	33	345	2176	2585
PCT	*	.7	.4	1.3	13.3	84.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	2.1	7.2	10.5	82.3	429
06&09	1.1	2.7	7.2	16.7	76.0	442
12&15	.2	2.4	8.6	15.7	75.7	452
18&21	.2	1.3	8.1	17.2	74.7	557
TOT	10	39	147	286	1447	1880
PCT	.5	2.1	7.8	15.2	77.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.4	.3	.2	.0	18	1.0
85/89	.0	.0	.1	.3	1.7	2.1	.7	.3	93	5.2
80/84	.0	.0	.0	.3	5.1	35.6	25.1	6.5	1303	72.6
75/79	.0	.0	.0	.0	.2	5.4	8.7	6.5	374	20.8
70/74	.0	.0	.0	.0	.0	.0	.1	.3	6	.3
TOTAL	0	0	1	11	134	780	624	244	1794	100.0
PCT	.0	.0	.1	.6	7.5	43.5	34.8	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.5	.2	.0	.0	.0	.0	.0	.0
.1	1.9	2.9	.2	.0	.0	.0	.0	.0	.1
1.5	28.1	40.4	2.1	.1	*	.1	.1	.0	.2
1.6	9.8	8.4	.7	.1	*	*	.1	.0	.2
*	.2	.0	.1	.0	.1	.0	.0	.0	.0
3.3	40.3	52.1	3.3	.2	.1	.1	.2	.0	.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	84	82	80	77	76	72	80.2	735
06&09	91	84	82	80	77	76	75	79.7	632
12&15	92	89	85	81	77	75	74	81.3	760
18&21	94	90	87	82	78	76	75	82.1	714
TOT	94	88	85	81	77	76	72	80.9	2841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.8	42.3	36.8	18.2	82	435
06&09	.0	.0	1.7	41.1	41.9	15.3	82	418
12&15	.0	.4	7.7	39.4	36.4	16.1	81	467
18&21	.0	2.0	16.2	50.4	26.0	5.3	77	488
TOT	0	12	134	786	632	244	80	1808

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PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1859-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	.0	.0	.0	1	.0	*
9/10	.0	.0	.0	.0	.1	.3	*	9	.0	.4
7/8	.0	.0	.0	.1	.2	.3	.0	13	.0	.6
6	.0	.0	.0	.0	.4	*	.0	10	*	.4
5	.0	.0	*	.2	.8	.1	.0	25	.0	1.2
4	.0	.0	.0	.9	1.4	.0	.0	49	.0	2.3
3	.0	.0	.1	1.7	1.3	.0	.0	67	.0	3.1
2	.0	.0	.4	4.1	.6	.1	.0	114	.1	5.2
1	.0	.0	1.3	7.7	.2	.0	.0	199	*	9.1
0	.0	.0	4.8	12.9	.2	.0	.0	389	.2	17.7
-1	.0	.0	7.8	11.2	.0	.0	.0	412	.1	18.9
-2	.0	.0	10.2	6.3	.0	.0	.0	358	*	16.5
-3	.0	.1	8.5	2.6	.0	.0	.0	242	.0	11.2
-4	.0	.3	4.1	.8	*	.0	.0	114	.0	5.3
-5	.0	.4	2.6	.6	.0	.0	.0	80	.0	3.7
-6	.0	.8	1.1	.1	.0	.0	.0	43	.0	2.0
-7/-8	.0	.6	.5	.3	.0	.0	.0	29	.0	1.3
-9/-10	*	.1	.2	.1	.0	.0	.0	10	.0	.5
-11/-13	.0	.1	*	.0	.0	.0	.0	3	.0	.1
TOTAL	1	50	904	1075	116	20	1	2167	13	2154
PCT	*	2.3	41.7	49.6	5.4	.9	*	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.1	.0	.0	.0	.0	.6
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	.8	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.4	.0	.0	.0	2.0
1-2	.3	6.6	2.8	.0	.0	.0	9.7
3-4	.3	7.6	8.0	.6	.0	.0	16.6
5-6	.0	1.9	8.0	.6	.0	.0	10.5
7	.0	.4	2.8	.6	.0	.0	3.9
8-9	.0	.1	.4	.1	.0	.0	.7
10-11	.0	.1	*	.0	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	18.3	22.6	2.0	.0	.0	43.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.3	.0	.0	.0	1.7
1-2	.4	7.8	3.6	.0	.0	.0	11.7
3-4	.1	7.0	8.2	.1	.0	.0	15.5
5-6	.0	1.3	10.3	.5	.0	.0	12.0
7	.0	.4	3.9	1.0	.0	.0	5.3
8-9	.0	.0	1.2	.4	.0	.0	1.6
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	17.6	27.7	2.1	.0	.0	48.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3
1-2	.2	.5	.3	.0	.0	.0	1.0
3-4	.0	.6	.6	.0	.0	.0	1.3
5-6	.0	.5	.4	.0	.0	.0	1.0
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	2.0	.0	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.1	.1	.0	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.1	.0	.0	.0	.0	.3	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	2.9	.7	.0	.0	.0	5.5	
1-2	1.0	15.9	6.7	.0	.0	.0	23.7	
3-4	.4	15.9	17.1	.7	.0	.0	34.1	
5-6	.0	3.9	16.9	3.1	.0	.0	24.0	
7	.0	.9	7.3	1.6	.0	.0	9.8	
8-9	.0	.1	1.6	.6	.0	.0	2.3	
10-11	.0	.1	.3	.0	.0	.0	.4	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	39.9	52.8	4.0	.0	.0	100.0	697

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	10.6	15.4	8.6	2.7	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	643	3
6-7	.1	.7	8.0	13.6	6.8	1.8	.7	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	526	5
8-9	.0	.1	1.8	4.1	6.2	2.8	1.3	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	276	7
10-11	.0	.0	.9	1.4	1.4	1.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	6
12-13	.0	.0	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
>13	.0	.0	.0	.2	.4	.1	.1	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	23	9
INVET	.4	.9	1.3	.5	.6	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	4
TOTAL	27	201	494	469	298	108	48	22	3	2	3	1	0	0	0	0	0	0	0	1636	5
PCT	1.7	12.3	27.8	28.7	18.2	6.6	2.9	1.3	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	2.7	2.3	.7	.0	.0	.0	.0	5.7	3.1	1.6	.2	.0	.8		.1	88.7
NE	1.7	2.9	.7	.0	.0	.0	.0	5.1	3.5	1.0	.7	.0	.5		.0	89.3
E	1.6	2.5	.7	.0	.0	.0	*	4.8	3.6	.8	.5	.0	.4		*	89.9
SE	3.5	3.8	.8	.0	.0	.0	*	8.0	3.2	1.1	.3	.0	.2		*	87.4
S	13.9	4.2	.4	.0	.0	.0	.0	18.3	2.3	1.2	.2	.0	.1		.0	78.5
SW	4.5	3.5	1.2	.0	.0	.0	.0	8.6	4.6	.3	.0	.0	.0		.0	78.1
W	13.8	3.6	4.5	.0	.0	.0	.0	21.1	3.0	2.0	.0	.0	.3		.0	65.5
NW	11.8	4.6	1.2	.0	.0	.0	.0	17.6	3.5	1.6	.0	.0	.0		.0	77.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.2	1.3	.3	.0	.0	.0	.0	2.8	3.6	.7	.0	.0	.1		.0	84.6
TOT PCT	1.8	2.7	.7	.0	.0	.0	*	5.2	3.5	.9	.6	.0	.5		*	89.5
TOT OBS:	31193															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.5	2.3	.7	.0	.0	.0	*	4.5	2.8	1.7	.8	.0	.4		*	89.9
06&09	2.3	2.9	.8	.0	.0	.0	.0	5.9	3.9	2.1	.3	.0	.3		*	87.7
12&15	2.2	3.0	.7	.0	.0	.0	*	5.9	3.3	.2	.7	.0	.4		*	89.5
18&21	1.3	2.5	.6	.0	.0	.0	.0	4.4	3.9	.1	.4	.0	.7		*	90.5
TOT PCT	1.8	2.7	.7	.0	.0	.0	*	5.2	3.5	.9	.6	.0	.5		*	89.5
TOT OBS:	31408															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.7	.8	*	.0	.0		2.8	8.8	3.3	3.9	3.0	2.7	2.3	3.7	2.2	3.7
NE	1.2	14.0	16.8	1.0	*	.0		33.1	11.2	34.0	39.5	33.4	39.0	32.3	32.6	29.5	36.9
E	2.0	22.3	26.7	1.6	*	.0		52.5	11.9	52.3	48.0	54.8	46.6	53.5	45.6	55.6	46.7
SE	.6	4.5	2.8	.1	*	.0		8.1	10.2	7.4	5.4	6.1	7.3	8.5	12.0	9.2	9.3
S	.3	.6	.3	*	.0	.0		1.2	6.9	.8	.5	.7	1.0	1.3	2.1	1.6	1.0
SW	.1	.2	.1	*	.0	.0		.5	7.0	.3	.2	.3	.3	.6	.9	.5	.3
W	.1	.2	*	*	.0	.0		.3	6.8	.3	.3	.2	.4	.3	.5	.3	.4
NW	.1	.3	.1	*	.0	.0		.5	6.8	.5	.6	.4	.7	.4	.9	.3	.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.0	1.5	1.0	1.9	.8	1.8	.8	.9
TOT OBS							38011		11.3	8441	1599	6288	1631	8691	2477	7305	1579
TOT PCT	5.8	43.8	47.6	2.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	1.5	.3	.0	.0		2.8	8.8	3.4	3.0	2.6	2.4
NE	5.3	22.0	5.7	.1	.0		33.1	11.2	34.9	34.5	32.4	30.7
E	8.1	35.7	8.7	.1	.0		52.5	11.9	51.6	53.1	51.7	54.1
SE	2.2	5.2	.6	*	.0		8.1	10.2	7.1	6.3	9.3	9.2
S	.5	.6	.1	.0	.0		1.2	6.9	.8	.8	1.5	1.5
SW	.2	.2	*	*	.0		.5	7.0	.3	.3	.7	.5
W	.2	.1	*	*	.0		.3	6.8	.3	.3	.3	.3
NW	.3	.2	*	.0	.0		.5	6.8	.5	.5	.5	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.1	1.2	1.0	.8
TOT OBS						38011		11.3	10040	7919	11168	8884
TOT PCT	19.0	65.4	15.4	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	5.1	45.5	45.3	2.9	*	.0	11.1	100.0	10040
06&09	1.2	3.2	44.4	48.5	2.7	*	.0	11.4	100.0	7919
12&15	1.0	6.9	43.7	45.5	2.8	*	.0	11.0	100.0	11168
18&21	.8	2.9	41.5	51.8	2.9	.1	.0	11.9	100.0	8864
TOT								11.3		38011
PCT	1.0	4.7	43.8	47.6	2.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	.7	.9		4.0
NE	9.6	9.9	9.5	2.6		4.0
E	16.2	18.2	16.7	4.6		3.9
SE	1.9	2.4	2.5	.8		4.4
S	.2	.3	.4	.2		4.7
SW	*	.1	.2	.1		5.0
W	*	*	.1	.1		4.9
NW	.1	.1	.1	.1		4.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.2	.1		3.1
TOT OBS					24079	4.0
TOT PCT	29.0	31.9	30.4	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	*	.1	.2	.1	.1	*	*	*	1.8	
NE	.1	.1	.4	1.7	2.7	1.2	.5	.1	*	*	24.8	
E	.2	.1	.7	2.9	4.7	2.0	.4	.1	.1	.1	44.1	
SE	*	*	.1	.4	.7	.3	.1	.1	*	*	5.8	
S	*	*	*	.1	.1	.1	*	.0	.0	*	.7	
SW	.0	*	*	*	*	*	*	*	.0	.0	.2	
W	*	*	*	*	*	*	*	*	.0	.0	.1	
NW	.0	*	*	*	*	*	*	.0	*	*	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	*	*	*	*	.0	.0	.7	
TOT OBS												24079
TOT PCT	.3	.2	1.3	5.4	8.5	3.8	1.4	.3	.2	.1	78.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	5.0	5.8	5.8	5.9	5.9	5.9	5.9	5.9
* OR >1000	12.1	14.1	14.3	14.4	14.4	14.4	14.4	14.4
* OR >600	16.2	19.2	19.6	19.7	19.7	19.7	19.7	19.7
* OR >300	17.1	20.5	20.9	21.0	21.0	21.0	21.1	21.1
* OR >150	17.3	20.7	21.1	21.2	21.2	21.3	21.3	21.3
* OR > 0	17.4	20.9	21.4	21.5	21.5	21.6	21.6	21.6

TOTAL NUMBER OF OBS: 24185

PCT FREQ NH <5/8: 78.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.2	14.5	24.1	21.6	12.8	7.3	5.8	4.2	4.3 .2	25337

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	*	*	*	.0	.0	*	*	.0	.0	.1	
1/2<1	NO PCP	*	.2	.2	*	.0	.0	.0	.0	.0	.0	.4	
	TOT %	*	.2	.3	*	.0	.0	*	*	.0	.0	.5	
	PCP	*	.1	.1	*	*	*	*	*	.0	.0	.2	
1<2	NO PCP	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	*	*	*	*	*	.0	.0	.3	
	PCP	*	.1	.2	*	*	*	*	*	.0	*	.4	
2<5	NO PCP	*	.3	.4	.1	*	*	*	*	.0	*	1.0	
	TOT %	.1	.5	.6	.1	*	*	*	*	.0	*	1.4	
	PCP	.1	.7	1.1	.3	.1	*	*	*	.0	*	2.3	
5<10	NO PCP	.4	4.0	5.8	.9	.2	.1	.1	.1	.0	.2	11.7	
	TOT %	.5	4.7	7.0	1.2	.2	.1	.1	.1	.0	.2	14.0	
	PCP	.1	.6	1.1	.2	*	*	*	*	.0	*	2.0	
10+	NO PCP	2.1	26.1	44.9	6.3	.9	.3	.2	.3	.0	.8	81.7	
	TOT %	2.1	26.7	46.0	6.4	.9	.3	.2	.3	.0	.8	83.8	
	TOT OBS												31048
	TOT PCT	2.7	32.1	54.0	7.8	1.2	.5	.3	.5	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	4-10	*	*	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	*	.0	.0	.0	*	.0		*	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	0-3	*	*	*	*	.0	*	.0	*	.0	.0	*	
1/2<1	4-10	*	.1	.1	*	*	*	*	*	.0		.2	
	11-21	*	.1	.2	*	.0	.0	.0	.0	.0		.3	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.3	*	*	*	*	*	.0	.0	.6	
	0-3	.0	*	*	*	*	*	.0	.0	.0	.0	.1	
1<2	4-10	*	.1	.1	*	*	*	*	*	.0		.2	
	11-21	*	*	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.2	*	*	*	*	*	.0	.0	.5	
	0-3	*	.1	.1	*	*	*	.0	*	.0	*	.2	
2<5	4-10	*	.3	.3	.1	*	*	*	*	.0		.7	
	11-21	*	.2	.3	*	*	*	.0	*	.0		.5	
	22+	.0	*	*	.0	.0	*	.0	.0	.0		.1	
	TOT %	.1	.5	.7	.2	*	*	*	*	.0	*	1.5	
	0-3	.1	.2	.5	.1	.1	*	*	*	.0	.2	1.3	
5<10	4-10	.3	2.0	2.9	.6	.1	.1	*	*	.0		5.9	
	11-21	.1	2.2	3.2	.4	.1	*	*	*	.0		5.9	
	22+	*	.1	.3	*	.0	*	*	.0	.0		.5	
	TOT %	.4	4.5	6.8	1.1	.2	.1	.1	.1	.0	.2	13.6	
	0-3	.2	.9	1.4	.4	.2	*	*	.1	.0	.8	4.1	
10+	4-10	1.3	11.0	19.0	3.8	.5	.2	.1	.2	.0		36.1	
	11-21	.6	14.1	24.0	2.3	.2	.1	*	*	.0		41.3	
	22+	*	.8	1.3	.1	*	*	*	*	.0		2.2	
	TOT %	2.1	26.9	45.7	6.6	.9	.3	.2	.3	.0	.8	83.8	
	TOT OBS												33664
	TOT PCT	2.7	32.3	53.6	8.0	1.2	.5	.3	.5	.0	1.0	100.0	

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

AREA 0001 GEORGETOWN
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.2	1.2	4.1	7.1	3.2	1.4	.2	.1	.1	17.9	82.1	5798
06&09	.3	.1	1.1	4.7	8.2	3.4	1.1	.2	.2	.1	19.5	80.5	5735
12&15	.3	.3	1.5	6.0	8.8	3.8	1.7	.2	.1	.1	22.9	77.1	6399
18&21	.3	.2	1.3	5.8	8.9	4.1	1.7	.3	.2	.1	22.9	77.1	7103
TOT													25035
PCT	.3	.2	1.3	5.2	8.3	3.7	1.5	.3	.2	.1	21.0	79.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	1.0	.7	2.2	16.0	80.0	8644
06&09	.1	.3	.2	.8	12.2	86.5	7281
12&15	.2	.7	.7	1.9	15.8	80.8	9744
18&21	.1	.3	.2	.8	10.1	88.5	8276
TOT							33945
PCT	.1	.6	.5	1.5	13.7	83.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.8	6.5	12.3	81.2	5591
06&09	.3	1.6	6.8	13.6	79.6	5496
12&15	.3	2.3	9.0	14.8	76.2	6201
18&21	.3	1.9	8.2	15.4	76.4	6897
TOT						24185
PCT	.3	1.9	7.7	14.1	78.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	*	*	.0	.0		*
90/94	.0	.0	*	.2	.8	.2	.1	*		1.4
85/89	.0	.0	*	.2	2.3	4.3	1.1	.5		8.5
80/84	.0	.0	.0	.2	4.1	31.2	26.4	5.4		67.1
75/79	.0	.0	.0	*	.5	7.4	9.3	5.4		22.6
70/74	.0	.0	.0	.0	*	*	.1	.3		.4
65/69	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL									25017	100.0
PCT	.0	.0	*	.7	7.7	43.1	36.9	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	*	.0	.0	.0	.0	*
.1	.3	.6	.3	*	*	*	*	.0	.1
.2	1.9	4.6	1.3	.2	*	*	.1	.0	.1
1.5	20.2	38.5	5.0	.7	.2	.1	.2	.0	.6
1.0	9.3	10.3	1.1	.2	.1	.1	.1	.0	.3
*	.1	.1	.1	*	*	*	*	.0	*
.0	*	*	.0	.0	.0	.0	.0	.0	.0
2.7	32.0	54.3	7.7	1.2	.4	.3	.4	.0	1.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	85	83	81	78	76	70	80.5	9943
06&09	91	83	82	80	77	75	68	79.9	7897
12&15	95	89	86	81	78	75	68	81.6	11078
18&21	96	91	88	82	79	76	72	82.8	8823
TOT	96	89	86	81	78	76	68	81.3	37741

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	3.3	40.7	43.0	12.8	81	6250
06&09	.0	.2	1.8	37.0	47.5	13.6	82	5483
12&15	.0	1.0	7.2	43.0	35.1	13.6	80	7184
18&21	.0	1.4	17.8	50.7	23.9	6.3	76	6291
TOT	0	185	1032	10827	9365	2899	80	25208

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PERIOD: (PRIMARY) 1929-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	*	*	*	4	.0	*
11/13	.0	.0	.0	.0	*	*	.1	*	44	.0	.2
9/10	.0	.0	.0	.0	*	.1	.3	.1	114	*	.4
7/8	.0	.0	.0	*	.1	.3	.5	*	279	*	1.0
6	.0	.0	.0	*	.1	.4	.3	*	224	*	.8
5	.0	.0	.0	.1	.3	.9	.3	*	413	*	1.5
4	.0	.0	.0	.1	.8	1.3	.1	.0	648	*	2.3
3	.0	.0	.0	.1	1.4	1.4	*	.0	842	*	3.0
2	.0	.0	*	.5	4.2	1.4	*	.0	1709	*	6.1
1	.0	.0	*	1.5	6.4	1.1	*	.0	2496	*	8.9
0	*	*	*	5.3	11.6	.6	*	.0	4912	.2	17.5
-1	.0	.0	*	7.1	10.3	.2	.0	.0	4934	.2	17.5
-2	.0	*	.1	8.2	7.9	.1	.0	.0	4580	.1	16.3
-3	.0	*	.1	5.9	3.8	*	*	.0	2769	*	9.8
-4	.0	.0	.3	4.3	2.0	*	.0	.0	1879	*	6.6
-5	.0	.0	.3	2.6	.8	*	.0	.0	1067	.0	3.8
-6	.0	.0	.4	1.2	.2	*	.0	.0	482	.0	1.7
-7/-8	.0	*	.6	.7	.2	*	.0	.0	435	.0	1.5
-9/-10	.0	*	.2	.2	*	.0	.0	.0	117	.0	.4
-11/-13	.0	*	.1	*	*	.0	.0	.0	27	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL									27976		
PCT	*	*	2.0	38.0	50.3	7.8	1.6	.2	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	*	.3	.2	*	.0	.0	.5
5-6	.0	.2	.2	*	.0	.0	.4
7	.0	*	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.5	.1	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.1	.0	.0	.0	1.2
1-2	.2	5.6	2.1	.0	.0	.0	7.8
3-4	*	4.7	6.5	.2	.0	.0	11.4
5-6	*	1.3	6.5	.3	.0	.0	8.2
7	*	.2	2.7	.3	.0	.0	3.3
8-9	.0	.1	.8	.2	*	.0	1.0
10-11	.0	*	.2	*	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	13.0	18.9	.9	*	.0	33.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.4	.1	.0	.0	.0	1.7
1-2	.3	9.3	3.2	.0	.0	.0	12.8
3-4	.1	7.9	10.5	.3	.0	.0	18.7
5-6	*	2.5	10.7	.5	.0	.0	13.7
7	.0	.6	4.6	.6	.0	.0	5.7
8-9	.0	.1	1.3	.2	.0	.0	1.6
10-11	.0	*	.4	.1	.0	.0	.5
12	.0	*	.1	.1	.0	.0	.2
13-16	.0	.0	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	21.9	30.8	1.8	.0	.0	55.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	*	1.7	.6	.0	.0	.0	2.3
3-4	*	1.6	1.2	*	.0	.0	2.8
5-6	.0	.5	1.1	*	.0	.0	1.5
7	.0	*	.3	*	.0	.0	.4
8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	*	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.0	3.4	.1	.0	.0	7.7

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	*	.2	.1	.0	.0	.0	.3
3-4	*	.1	.2	.0	.0	.0	.3
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	*	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.3	.0	.0	.0	.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	*
1-2	*	.1	.0	.0	.0	.0	.1
3-4	.0	*	.0	*	.0	.0	.1
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	*	*	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1
1-2	*	.1	.0	.0	.0	.0	.1
3-4	.0	*	.0	*	.0	.0	*
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	*	*	.0	.0	.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	.0	.0	.0	.0	.1	
1-2	*	.1	*	.0	.0	.0	.1	
3-4	.0	*	*	*	.0	.0	*	
5-6	.0	*	*	.0	.0	.0	*	
7	.0	*	*	*	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.2	*	*	.0	.0	.3	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	3.0	.2	.0	.0	.0	4.6	
1-2	.7	17.4	6.1	.0	.0	.0	24.2	
3-4	.1	14.7	18.5	.5	.0	.0	33.8	
5-6	*	4.5	18.5	.8	.0	.0	23.8	
7	*	.9	7.7	1.0	.0	.0	9.6	
8-9	.0	.2	2.2	.4	*	.0	2.8	
10-11	.0	.1	.6	.2	.0	.0	.8	
12	.0	*	.2	.1	.0	.0	.3	
13-16	.0	*	.1	*	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								9858
TOT PCT	2.3	40.8	54.0	2.9	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	11.0	18.1	9.2	3.1	.9	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	9337	3
6-7	.1	1.3	8.6	12.7	5.9	1.9	1.0	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	6640	5
8-9	*	.3	1.6	3.7	4.0	1.8	.9	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	2620	6
10-11	.0	.3	.4	.7	.8	.6	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	673	6
12-13	.0	.0	.3	.3	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	6
>13	.0	.0	.0	.2	.2	.1	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	126	8
INDET	1.1	1.0	1.6	1.0	.6	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1221	4
TOTAL																				20871	4
PCT	3.3	13.8	30.6	27.8	14.7	5.7	2.6	1.0	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

AREA 0001 GEORGETOWN
8.9N 57.4W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	*	.0	.0	.0	.4	.0	.0	12	*
89/90	.0	.0	.0	*	*	.4	.1	.2	.3	.3	.2	.3	58	.2
87/88	.0	.1	.1	.6	.2	.4	.9	2.5	2.9	3.3	1.3	.5	398	1.1
85/86	1.4	.5	1.2	2.5	3.3	3.3	7.6	15.6	22.4	17.5	9.8	3.2	2734	7.8
83/84	8.5	6.6	6.2	14.8	18.5	21.5	38.0	48.1	48.1	46.3	37.7	20.8	9327	26.6
81/82	40.4	32.2	38.1	45.1	54.1	54.6	45.0	28.1	24.5	27.0	40.3	52.7	13906	39.7
79/80	40.6	46.7	44.3	29.6	19.2	17.6	10.0	4.7	4.0	4.3	8.9	19.4	7025	20.1
77/78	7.8	11.5	8.4	5.7	3.8	1.7	1.3	.8	.5	.6	1.5	2.8	1300	3.7
75/76	1.3	2.0	1.2	1.3	.7	.3	*	*	.2	.2	.2	.2	209	.6
73/74	.1	.5	.5	.1	*	.2	.0	.1	*	*	*	*	45	.1
71/72	.0	*	.1	.2	*	*	.1	.0	.0	.0	*	*	14	*
69/70	.1	.0	.0	*	*	.0	.0	.0	.0	.0	*	.0	5	*
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2800	2761	2867	2596	2944	2824	2906	3105	3409	3114	3021	2688	35035	100.0
MEAN	80.5	80.1	80.3	81.0	81.4	81.7	82.3	83.2	83.4	83.3	82.5	81.6	81.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1013	1012	1012	1011	1013	1012	1013	1012	1013	2462
FEB	1013	1013	1013	1012	1014	1012	1013	1012	1013	2306
MAR	1013	1013	1013	1012	1014	1013	1013	1012	1013	2535
APR	1013	1014	1012	1013	1014	1015	1013	1012	1013	2299
MAY	1013	1013	1013	1012	1014	1014	1013	1012	1013	2411
JUN	1013	1014	1013	1013	1014	1013	1014	1013	1014	2536
JUL	1014	1014	1013	1013	1014	1014	1014	1012	1014	2576
AUG	1013	1013	1013	1012	1014	1014	1013	1011	1013	2755
SEP	1013	1012	1012	1011	1013	1014	1012	1011	1013	2929
OCT	1012	1011	1011	1010	1013	1013	1011	1010	1012	2722
NOV	1011	1011	1010	1011	1012	1013	1011	1010	1011	2381
DEC	1012	1013	1011	1010	1013	1012	1012	1011	1012	2252
ANN	1013	1013	1012	1012	1014	1013	1013	1012	1013	30194
OBS	7010	374	6217	432	7328	1182	7203	448		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1003	1005	1006	1011	1013	1014	1016	1018	1022
FEB	1002	1005	1009	1012	1013	1015	1017	1018	1022
MAR	1002	1006	1010	1012	1013	1014	1016	1018	1021
APR	1004	1007	1010	1012	1013	1014	1016	1018	1022
MAY	1001	1006	1010	1012	1013	1015	1016	1018	1022
JUN	1002	1006	1009	1013	1014	1015	1017	1019	1023
JUL	1005	1008	1011	1013	1014	1015	1017	1018	1022
AUG	1003	1007	1010	1012	1013	1014	1016	1019	1024
SEP	1003	1007	1009	1011	1013	1014	1016	1017	1024
OCT	1001	1006	1009	1010	1012	1013	1015	1017	1021
NOV	1001	1005	1008	1010	1011	1013	1015	1017	1020
DEC	1001	1006	1009	1011	1012	1013	1016	1018	1023

JANUARY

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1860-1974

AREA 0002 CAYENNE
6.0N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	3.3	2.8	1.0	.0	.0	.0	.0	7.0	4.4	.0	.0	.0	2.1		.0	86.5
NE	2.3	2.7	.9	.0	.0	.0	.0	5.9	3.9	.1	.9	.0	1.3		.1	87.8
E	3.2	3.1	1.3	.0	.0	.0	.0	7.4	3.6	.0	.8	.0	1.0		.0	87.2
SE	5.0	6.9	1.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	4.0		.0	83.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	80.0	.0	.0	.0	.0		.0	20.0
W	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0		.0	.0
NW	.0	.0	11.1	.0	.0	.0	.0	11.1	11.1	.0	.0	.0	11.1		.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.7	2.9	1.1	.0	.0	.0	.0	6.5	3.9	*	.8	.0	1.4		*	87.3
TOT OBS:	2132															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	2.8	3.2	1.5	.0	.0	.0	.0	7.5	3.2	.2	1.1	.0	.8		.0	87.4
06&09	4.1	2.9	1.5	.0	.0	.0	.0	8.3	4.4	.0	.6	.0	1.0		.0	85.7
12&15	2.0	2.7	.5	.0	.0	.0	.0	5.2	3.6	.0	.7	.0	1.4		.0	89.1
18&21	2.8	2.6	.9	.0	.0	.0	.0	6.1	4.5	.0	.7	.0	2.2		.2	86.2
TOT PCT	2.9	2.8	1.1	.0	.0	.0	.0	6.8	3.9	*	.8	.0	1.4		*	87.1
TOT OBS:	2145															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	2.7	4.1	.2	.0	.0		7.0	12.6	7.5	3.1	8.0	2.8	7.9	7.7	6.6	5.2
NE	.4	16.5	39.8	4.4	*	.0		61.2	14.1	59.9	61.5	62.4	66.8	60.2	58.1	62.6	60.8
E	.5	8.5	18.0	2.0	*	.0		29.1	13.7	30.5	30.8	27.2	26.2	29.1	30.8	28.7	29.2
SE	.1	.9	.6	.0	.0	.0		1.6	9.3	1.3	2.8	1.4	1.4	1.5	2.9	1.3	2.8
S	*	.2	*	.0	.0	.0		.3	7.6	.1	.3	.4	.5	.2	.0	.4	.5
SW	*	.1	*	.0	.0	.0		.1	9.4	.1	.0	.2	.5	.0	.0	.0	.5
W	.0	.1	*	.0	.0	.0		.1	9.0	.1	.0	.0	.9	.0	.2	.2	.5
NW	.0	.3	.1	*	.0	.0		.5	10.8	.4	.7	.3	.9	1.0	.2	.2	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.2	.7	.2	.0	.0	.0	.0	.0
TOT OBS	38	853	1822	193	2	0	2908		13.7	652	143	534	107	602	201	563	106
TOT PCT	1.3	29.3	62.7	6.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	4.3	1.6	.0	.0		7.0	12.6	6.7	7.1	7.9	6.4
NE	4.1	37.3	19.2	.5	.0		61.2	14.1	60.2	63.1	59.7	62.3
E	3.2	17.2	8.3	.4	.0		29.1	13.7	30.5	27.0	29.5	28.8
SE	.5	.9	.2	.0	.0		1.6	9.3	1.6	1.4	1.8	1.6
S	.1	.1	.0	.0	.0		.3	7.6	.2	.4	.2	.4
SW	*	.1	.0	.0	.0		.1	9.4	.1	.3	.0	.1
W	*	.1	.0	.0	.0		.1	9.0	.1	.2	.1	.2
NW	.2	.2	*	*	.0		.5	10.8	.5	.4	.8	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.3	.2	.0	.0
TOT OBS	275	1752	854	27	0	2908		13.7	795	641	803	669
TOT PCT	9.5	60.2	29.4	.9	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1860-1974

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	1.3	30.8	62.0	5.7	.0	.0	13.3	100.0	795
06&09	.2	.8	29.2	62.7	7.6	.0	.0	14.0	100.0	641
12&15	.0	1.4	31.6	60.3	6.6	.1	.0	13.6	100.0	803
18&21	.0	1.8	25.0	66.2	6.9	.1	.0	14.1	100.0	669
TOT	3	35	853	1822	193	2	0	13.7		2908
PCT	.1	1.2	29.3	62.7	6.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WNB DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.7	2.6	1.7		4.8
NE	13.6	16.1	22.3	9.3		4.6
E	6.9	8.3	9.7	4.1		4.5
SE	.3	.2	.4	.3		5.2
S	*	.0	*	.3		6.8
SW	*	.0	.0	.0		2.0
W	.0	.0	.0	.1		8.0
NW	*	.1	.1	.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.1		8.0
TOT OBS	370	435	580	262	1647	4.6
TOT PCT	22.5	26.4	35.2	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WNB DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.2	.9	1.0	.4	.2	*	.1	.0	4.7	
NE	.1	.1	1.3	5.7	6.7	3.1	1.6	.2	.1	.0	42.4	
E	.2	.2	.5	2.0	2.8	1.5	1.0	.2	*	.0	20.6	
SE	.1	.0	.0	*	.2	.2	.1	*	.0	.0	.6	
S	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
W	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	9	5	31	143	182	88	48	7	3	0	1131	1647
TOT PCT	.5	.3	1.9	8.7	11.1	5.3	2.9	.4	.2	.0	68.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
= OR >3500	3.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	7.6	8.9	8.9	8.9	8.9	9.0	9.0	9.0
= OR >1000	16.3	19.5	19.8	20.0	20.0	20.0	20.0	20.0
= OR >600	22.3	27.6	28.5	28.6	28.6	28.7	28.7	28.7
= OR >300	23.6	29.4	30.5	30.6	30.6	30.7	30.7	30.7
= OR >150	23.8	29.7	30.8	30.9	30.9	31.0	31.0	31.0
= OR > 0	23.9	30.0	31.4	31.6	31.6	31.7	31.7	31.7
TOTAL	394	495	517	521	521	522	522	522

TOTAL NUMBER OF OBS: 1648

PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	11.5	20.0	18.7	13.9	8.2	6.6	7.3	9.0 .6	1764

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1860-1974

AREA 0002 CAYENNE
6.0N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	*	.5	.2	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.1	.7	.2	*	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.1	1.1	.5	*	.0	.0	.0	.0	.0	.0	1.8	
5<10	PCP	.4	1.7	.8	.1	.0	.0	.0	.0	.0	.0	3.0	
	NO PCP	1.5	7.7	2.9	.1	.0	*	*	.1	.0	*	12.4	
	TOT %	1.9	9.4	3.7	.1	.0	*	*	.1	.0	*	15.5	
10+	PCP	.2	1.4	.9	.1	.0	.0	.0	*	.0	.0	2.5	
	NO PCP	6.3	49.1	23.0	.9	.3	*	.0	.3	.0	.0	79.9	
	TOT %	6.4	50.5	23.9	1.0	.3	*	.0	.3	.0	.0	82.5	
	TOT OBS												2129
	TOT PCT	8.5	61.2	28.2	1.2	.3	.1	*	.4	.0	*	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.4	.2	*	.0	.0	.0	.0	.0		.7	
	11-21	.1	.7	.2	*	.0	.0	.0	.0	.0		1.0	
	22+	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	1.2	.5	.1	.0	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	*	.2	
	4-10	.6	1.7	.9	.1	.0	*	*	*	.0		3.4	
	11-21	1.1	6.9	2.2	.1	.0	.0	.0	*	.0		10.2	
	22+	.2	1.1	.4	.0	.0	.0	.0	*	.0		1.8	
	TOT %	1.9	9.7	3.5	.2	.0	*	*	.1	.0	*	15.5	
10+	0-3	.1	.3	.4	.1	*	*	.0	.0	.0	.0	1.0	
	4-10	2.3	13.5	6.6	.7	.2	.0	.0	.3	.0		23.5	
	11-21	3.6	33.5	15.4	.2	*	.0	.0	.1	.0		52.9	
	22+	.0	3.2	1.5	.0	.0	.0	.0	.0	.0		4.7	
	TOT %	6.0	50.5	23.9	1.0	.2	*	.0	.4	.0	.0	82.0	
	TOT OBS												2450
	TOT PCT	8.1	61.8	28.0	1.2	.2	.1	*	.5	.0	*	100.0	

JANUARY

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1860-1974

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.2	1.2	8.8	11.5	4.7	2.5	.0	.0	.0	29.7	70.3	407
06&09	1.0	.0	2.4	7.2	9.1	5.3	3.6	.5	.2	.0	29.2	70.8	418
12&15	.2	.7	2.7	9.9	10.1	5.3	3.4	.2	.2	.0	32.8	67.2	415
18&21	.6	.2	1.4	7.4	11.3	5.5	1.8	.8	.2	.0	29.3	70.7	488
TOT	11	5	33	143	182	90	48	7	3	0	522	1206	1728
PCT	.6	.3	1.9	8.3	10.5	5.2	2.8	.4	.2	.0	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.6	.5	3.6	17.3	77.5	641
06&09	.0	.0	.2	1.7	16.0	82.1	575
12&15	.0	.0	.3	.8	16.0	83.0	657
18&21	.0	.0	.3	1.7	13.1	84.9	590
TOT	3	4	8	48	385	2015	2463
PCT	.1	.2	.3	1.9	15.6	81.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.6	13.0	18.7	68.4	386
06&09	1.0	3.6	11.7	19.3	69.0	394
12&15	.3	3.8	14.1	20.2	65.7	397
18&21	.6	2.3	10.6	20.0	69.4	471
TOT	11	50	202	322	1124	1648
PCT	.7	3.0	12.3	19.5	68.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.1	.0	5	.3
85/89	.0	.0	.0	.2	.5	1.6	.2	.6	56	3.1
80/84	.0	.0	.0	.1	3.0	25.7	22.0	6.8	1039	57.6
75/79	.0	.0	.0	.0	.4	10.8	18.6	8.6	694	38.4
70/74	.0	.0	.0	.0	.0	.0	.1	.5	11	.6
TOTAL	0	0	0	8	72	688	739	298	1805	100.0
PCT	.0	.0	.0	.4	4.0	38.1	40.9	16.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	*	.0	.0	.0	.0	.0	.0	.0
.2	1.8	1.0	*	.1	.0	.0	.0	.0	.0
4.4	35.6	16.8	.5	.1	*	.0	.1	.0	.0
3.2	23.5	10.9	.4	.1	.0	.0	.2	.0	.1
.0	.2	.3	.0	.0	.1	.0	.0	.0	.0
7.9	61.4	29.1	1.0	.2	.1	.0	.3	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	83	82	80	76	73	68	79.3	782
06&09	86	82	81	79	76	73	68	78.8	641
12&15	92	87	84	80	77	74	69	80.3	797
18&21	93	88	86	81	77	75	68	81.1	666
TOT	93	86	84	80	77	74	68	79.9	2886

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.5	33.8	44.7	19.8	83	465
06&09	.0	.2	1.4	30.0	50.0	18.4	83	424
12&15	.0	.4	3.7	40.1	38.3	17.5	82	481
18&21	.0	.9	9.2	47.6	31.0	11.2	79	445
TOT	0	8	72	689	742	304	82	1815

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1860-1974

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
7/8	.0	.0	.0	.0	.1	.2	.1	.0	7	.0	.4
6	.0	.0	.0	.1	.0	.5	.0	.0	11	.0	.6
5	.0	.0	.0	.0	.2	.7	.0	.1	19	.0	1.0
4	.0	.0	.0	.2	1.1	.6	.0	.0	37	.0	1.9
3	.0	.0	.0	.3	1.8	.8	.0	.0	57	.0	2.9
2	.0	.0	.1	.8	3.9	.3	.0	.0	98	.0	5.0
1	.0	.0	.0	2.2	6.2	.1	.0	.0	165	.3	8.2
0	.0	.0	.1	10.8	8.7	.1	.0	.0	382	.4	19.3
-1	.0	.0	.0	15.5	4.9	.0	.0	.0	397	.2	20.2
-2	.0	.0	.2	14.1	2.1	.0	.0	.0	318	.1	16.3
-3	.0	.0	.3	9.8	.9	.0	.0	.0	214	.0	11.0
-4	.0	.0	.7	4.7	.2	.0	.0	.0	108	.0	5.5
-5	.0	.0	1.0	2.2	.2	.0	.0	.0	65	.0	3.3
-6	.0	.0	.8	.8	.1	.0	.0	.0	33	.0	1.7
-7/-8	.0	.1	.9	.3	.1	.0	.0	.0	27	.1	1.3
-9/-10	.0	.1	.1	.1	.0	.0	.0	.0	3	.0	.2
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		78		592		5			17	1931
		4		1204		63		1	1948		
PCT	.1	.2	4.0	61.8	30.4	3.2	.3	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.6	.0	.0	.0	1.1
3-4	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.7	1.8	.0	.0	.0	2.5
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	5.3	.0	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.8
1-2	.0	3.4	3.8	.0	.0	.0	7.3
3-4	.0	6.0	14.5	1.6	.0	.0	22.0
5-6	.0	1.6	20.9	.7	.0	.0	23.2
7	.0	.1	7.1	1.6	.0	.0	8.8
8-9	.0	.0	1.9	1.1	.0	.0	3.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.1	*	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.8	48.8	5.0	.0	.0	65.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.6	3.0	.0	.0	.0	3.7
3-4	.0	2.0	6.3	.8	.0	.0	9.1
5-6	.0	.5	5.3	.2	.0	.0	6.0
7	.0	.0	3.2	.8	.0	.0	4.0
8-9	.0	.0	1.0	.9	.0	.0	1.8
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	19.4	2.7	.0	.0	26.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.0	*	.0	.0	.0	*
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.6

JANUARY

PERIOD: (OVER-ALL) 1963-1974 AREA 0002 CAYENNE

TABLE 18 (CONT) 6.6N 52.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.5	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.1	1.6	.1	.0	.0	.0	1.9	
1-2	.0	4.6	7.5	.0	.0	.0	12.1	
3-4	.0	8.7	22.5	2.4	.0	.0	33.6	
5-6	.0	2.8	28.1	1.0	.0	.0	32.0	
7	.0	.1	11.7	2.4	.0	.0	14.2	
8-9	.0	.0	3.1	1.9	.0	.0	5.0	
10-11	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.3	.1	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	17.9	74.1	7.8	.0	.0	100.0	676

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

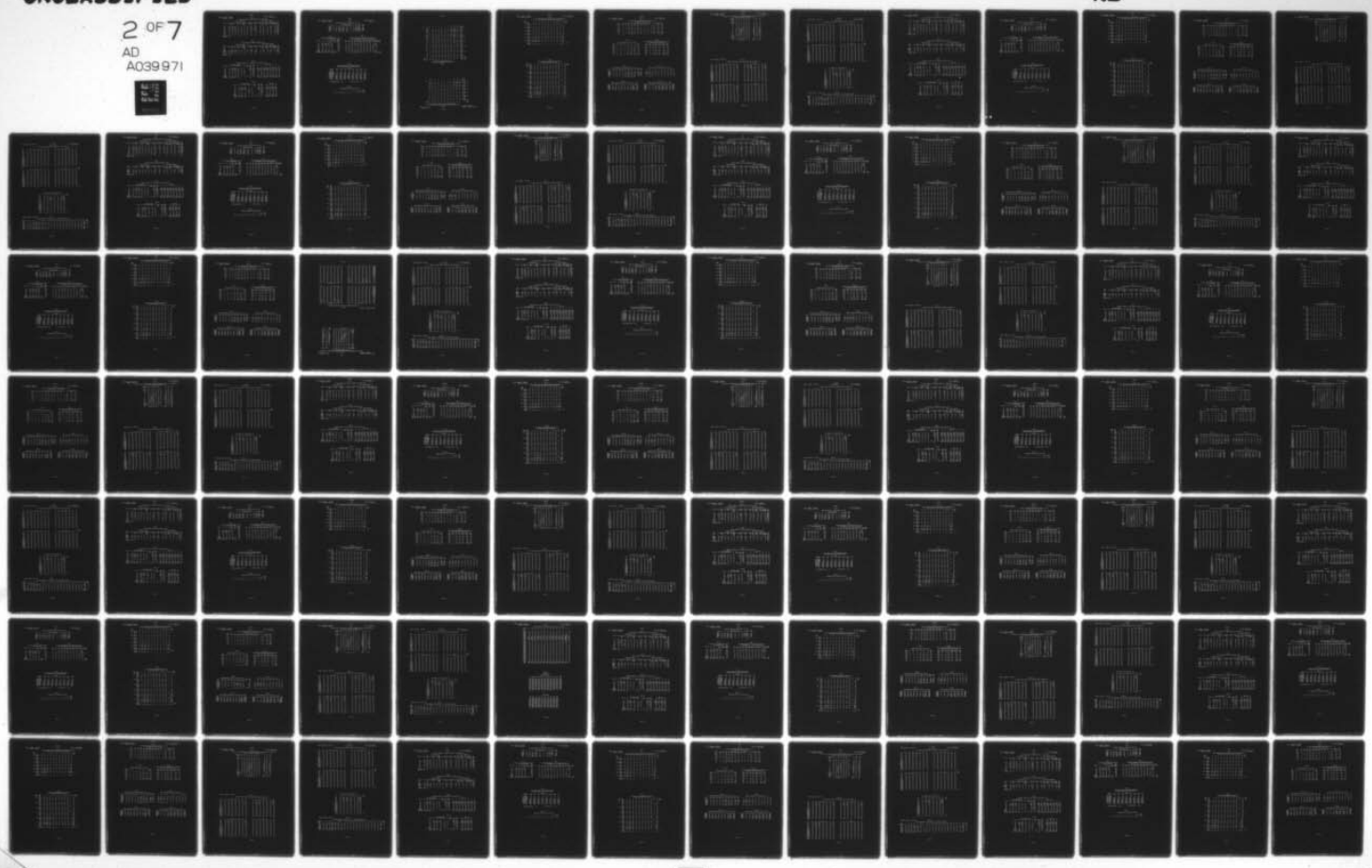
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	4.4	13.6	10.1	3.9	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	489	4
6-7	.1	.4	5.7	13.7	9.2	4.2	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	517	6
8-9	.1	.3	1.0	3.8	6.2	4.1	1.6	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	360	7
10-11	.0	.1	.1	.3	1.0	1.2	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
12-13	.0	.0	.3	.3	.3	.5	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	8
>13	.0	.0	.0	.1	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDET	.5	1.0	1.9	1.5	1.0	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	5
TOTAL	11	91	332	435	319	176	70	17	5	5	1	0	0	0	0	0	0	0	0	1462	6
PCT	.8	6.2	22.7	29.8	21.8	12.0	4.8	1.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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FEBRUARY

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	3.2	1.9	.0	.0	.0	.0	5.6	3.2	.7	.3	.0	.5		.0	89.6
NE	2.1	2.1	1.6	.0	.0	.0	.0	5.3	2.8	.2	.8	.0	3.0		.1	87.9
E	1.5	1.9	1.3	.0	.0	.0	.0	4.5	1.8	.0	.1	.0	1.6		.0	92.0
SE	31.4	.0	7.8	.0	.0	.0	.0	39.2	15.7	.0	.0	.0	.0		.0	45.1
S	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0		.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.0	2.1	1.6	.0	.0	.0	.0	5.3	2.7	.2	.6	.0	2.4		.1	88.8
TOT OBS:	1905															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.7	1.1	2.6	.0	.0	.0	.0	4.8	2.2	.0	.4	.0	2.4		.0	90.2
06&09	2.0	2.3	1.8	.0	.0	.0	.0	5.9	3.6	.7	.2	.0	.2		.0	89.4
12&15	1.7	2.5	1.0	.0	.0	.0	.0	5.0	2.7	.2	1.0	.0	3.6		.0	87.7
18&21	2.5	2.5	1.0	.0	.0	.0	.0	5.5	2.5	.0	.6	.0	3.1		.2	88.1
TOT PCT	2.0	2.1	1.6	.0	.0	.0	.0	5.3	2.7	.2	.6	.0	2.4		.1	88.8
TOT OBS:	1912															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	1.9	4.4	.5	.0	.0		7.0	14.2	8.3	1.9	8.2	4.9	6.5	6.8	6.1	6.7
NE	.5	12.8	47.2	5.8	.0	.0		66.2	15.0	63.3	73.4	62.9	66.8	69.7	70.3	66.0	70.2
E	.1	4.5	18.3	2.9	.0	.0		25.4	15.4	27.3	23.4	28.0	26.6	22.2	20.0	26.4	22.1
SE	*	.2	.6	.0	.0	.0		.8	11.3	.4	1.3	.5	1.6	1.3	1.1	.8	.0
S	.0	*	.0	.0	.0	.0		*	8.0	.0	.0	.0	.0	.0	.0	.2	.0
SW	.0	*	.0	.0	.0	.0		*	6.0	*	.0	.1	.0	.0	.0	.0	.0
W	.0	.1	.0	.0	.0	.0		.1	6.0	.1	.0	.2	.0	.0	.0	.0	.0
NW	*	.1	.2	.1	.0	.0		.3	14.4	.2	.0	.2	.0	.3	1.8	.2	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.2	.0	.0	.0	.0	.0	.2	.0
TOT OBS	19	456	1643	206	0	0	2324		15.0	513	77	457	61	517	139	508	52
TOT PCT	.8	19.6	70.7	8.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	4.2	2.3	.0	.0		7.0	14.2	7.5	7.8	6.6	6.2
NE	2.9	38.8	23.9	.7	.0		66.2	15.0	64.6	63.3	69.8	66.4
E	.7	14.3	10.1	.2	.0		25.4	15.4	26.8	27.8	21.7	26.0
SE	.2	.5	.1	.0	.0		.8	11.3	.6	.7	1.3	.8
S	.0	*	.0	.0	.0		*	8.0	.0	.0	.0	.2
SW	*	.0	.0	.0	.0		*	6.0	*	*	.0	.0
W	.1	.0	.0	.0	.0		.1	6.0	.1	.1	.0	.0
NW	.1	.1	.2	.0	.0		.3	14.4	.2	.2	.6	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.2	.0	.0	.2
TOT OBS	105	1346	852	21	0	2324		15.0	590	518	656	560
TOT PCT	4.5	57.9	36.7	.9	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.2	.7	22.0	67.8	9.3	.0	.0	14.8	100.0	590
06&09	.0	.2	19.7	74.3	5.8	.0	.0	14.8	100.0	518
12&15	.0	1.7	19.5	67.7	11.1	.0	.0	15.1	100.0	656
18&21	.2	.2	17.1	73.9	8.6	.0	.0	15.4	100.0	560
TOT	2	17	456	1643	206	0	0	15.0		2324
PCT	.1	.7	19.6	70.7	8.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.6	2.9	1.2		4.9
NE	13.4	19.2	22.0	10.1		4.6
E	6.5	8.6	8.4	3.5		4.3
SE	*	.0	.1	.3		7.1
S	.0	.0	.0	.1		8.0
SW	.0	*	*	.0		5.5
W	.0	*	*	.0		5.5
NW	.3	*	.0	*		1.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.1	.0		6.0
TOT OBS	326	445	506	230	1507	4.5
TOT PCT	21.6	29.5	33.6	15.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.2	.8	1.1	.2	.3	.0	.0	.0	4.4	
NE	.3	.1	1.3	5.6	6.9	3.0	1.4	.4	.2	.3	45.4	
E	.2	.0	.4	2.3	2.6	1.0	.5	*	*	.1	19.8	
SE	.0	.1	.0	.1	*	.1	.0	.0	.0	.0	.2	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
W	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	
TOT OBS	8	2	30	133	162	64	35	6	4	5	1058	1507
TOT PCT	.5	.1	2.0	8.8	10.7	4.2	2.3	.4	.3	.3	70.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.6	.6	.6	.6	.6	.6	.6
* OR >9000	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	6.0	7.5	7.6	7.6	7.6	7.6	7.6	7.6
* OR >1000	14.3	17.7	18.0	18.1	18.2	18.3	18.3	18.3
* OR >600	21.1	26.1	26.7	26.8	27.0	27.1	27.1	27.1
* OR >300	22.3	28.0	28.6	28.8	29.0	29.1	29.1	29.1
* OR >150	22.3	28.1	28.7	28.9	29.1	29.3	29.3	29.3
* OR > 0	22.4	28.5	29.1	29.3	29.7	29.8	29.8	29.8
TOTAL	338	429	439	442	447	449	449	449

TOTAL NUMBER OF OBS: 1507

PCT FREQ NH <5/8: 70.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.7	11.1	17.6	20.8	15.3	8.9	7.4	6.5	7.5 .3	1604

FEBRUARY

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	*	.4	.2	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	PCP	*	.7	.1	.2	.0	.0	.0	.0	.0	.0	1.1	
2<5	NO PCP	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	*	1.1	.4	.2	.0	.0	.0	.0	.0	.0	1.7	
	PCP	.3	1.3	.5	.1	.0	.0	.0	.0	.0	.0	2.3	
5<10	NO PCP	.9	8.2	2.6	.0	.0	.0	.0	.1	.0	.1	11.8	
	TOT %	1.2	9.5	3.1	.1	.0	.0	.0	.1	.0	.1	14.1	
	PCP	.1	1.2	.3	.0	.0	.0	.0	.0	.0	.0	1.5	
10+	NO PCP	6.4	53.0	21.4	.4	.0	*	.1	.2	.0	.1	81.6	
	TOT %	6.4	54.2	21.7	.4	.0	*	.1	.2	.0	.1	83.1	
	TOT OBS												1901
	TOT PCT	7.7	65.5	25.5	.7	.1	*	.1	.4	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	22+	*	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	.0	.0	*	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.3	.1	*	.0	.0	.0	*	.0		.4	
	11-21	.1	.9	.3	.1	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	1.2	.5	.1	.0	.0	.0	.0	.0	.0	1.9	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
5<10	4-10	.4	2.0	.3	*	.0	.0	.0	*	.0		2.8	
	11-21	.6	6.3	2.3	*	.0	.0	.0	.1	.0		9.4	
	22+	.1	1.2	.3	.0	.0	.0	.0	.1	.0		1.7	
	TOT %	1.2	9.5	3.0	.1	.0	.0	.0	.2	.0	*	13.9	
	0-3	.1	.4	.1	*	.0	.0	.0	*	.0	*	.7	
10+	4-10	1.7	10.0	4.0	.1	.0	*	.1	.1	.0		16.0	
	11-21	4.0	40.4	15.2	.2	.0	.0	.0	.1	.0		59.9	
	22+	.4	3.8	2.2	.0	.0	.0	.0	.0	.0		6.4	
	TOT %	6.2	54.6	21.5	.4	.0	*	.1	.2	.0	*	83.0	
	TOT OBS												2094
	TOT PCT	7.5	66.0	25.3	.6	*	*	.1	.4	.0	.1	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	*	.4	.2	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.2	
2<5	PCP	*	.7	.1	.2	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	*	1.1	.4	.2	.0	.0	.0	.0	.0	.0	1.7	
5<10	PCP	.3	1.3	.5	.1	.0	.0	.0	.0	.0	.0	2.3	
	NO PCP	.9	8.2	2.6	.0	.0	.0	.0	.1	.0	.1	11.8	
	TOT %	1.2	9.5	3.1	.1	.0	.0	.0	.1	.0	.1	14.1	
10+	PCP	.1	1.2	.3	.0	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	6.4	53.0	21.4	.4	.0	*	.1	.2	.0	.1	81.6	
	TOT %	6.4	54.2	21.7	.4	.0	*	.1	.2	.0	.1	83.1	
	TOT OBS												1901
	TOT PCT	7.7	65.5	25.5	.7	.1	*	.1	.4	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	22+	*	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.0	.0	*	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.1	*	.0	.0	.0	.0	.0		.4	
	11-21	.1	.9	.3	.1	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	1.2	.5	.1	.0	.0	.0	.0	.0	.0	1.9	
5<10	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.4	2.0	.3	*	.0	.0	.0	*	.0		2.8	
	11-21	.6	6.3	2.3	*	.0	.0	.0	.1	.0		9.4	
	22+	.1	1.2	.3	.0	.0	.0	.0	.1	.0		1.7	
	TOT %	1.2	9.5	3.0	.1	.0	.0	.0	.2	.0	*	13.9	
10+	0-3	.1	.4	.1	*	.0	.0	.0	*	.0	*	.7	
	4-10	1.7	10.0	4.0	.1	.0	*	.1	.1	.0		16.0	
	11-21	4.0	40.4	15.2	.2	.0	.0	.0	.1	.0		59.9	
	22+	.4	3.8	2.2	.0	.0	.0	.0	.0	.0		6.4	
	TOT %	6.2	54.6	21.5	.4	.0	*	.1	.2	.0	*	83.0	
	TOT OBS												2094
	TOT PCT	7.5	66.0	25.3	.6	*	*	.1	.4	.0	.1	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	2.2	7.3	9.5	2.8	1.4	.3	.0	.3	24.0	76.0	358
06&09	.8	.0	1.9	9.3	11.7	3.6	1.4	.0	.3	.8	29.8	70.2	366
12&15	.3	.0	2.3	8.3	11.4	4.8	2.5	.3	.5	.0	30.3	69.7	396
18&21	.7	.4	1.3	9.0	9.4	4.9	3.4	.9	.2	.2	30.6	69.4	445
TOT	8	2	30	133	164	64	35	6	4	5	451	1114	1565
PCT	.5	.1	1.9	8.5	10.5	4.1	2.2	.4	.3	.3	28.8	71.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	1.0	.2	2.9	16.0	79.8	519
06&09	.4	.4	.2	1.9	12.5	84.6	479
12&15	.0	1.0	.3	1.2	14.5	83.0	581
18&21	.0	.4	.4	1.7	12.8	84.7	522
TOT	3	15	6	40	294	1743	2101
PCT	.1	.7	.3	1.9	14.0	83.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	3.2	11.1	13.7	75.2	343
06&09	.9	3.4	13.5	18.1	68.5	349
12&15	.3	3.1	12.0	19.3	68.7	383
18&21	.7	2.5	12.3	19.2	68.5	432
TOT	8	46	184	267	1056	1507
PCT	.5	3.1	12.2	17.7	70.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.0	.0	4	.2
85/89	.0	.0	.0	.0	.7	1.5	.3	.2	44	2.7
80/84	.0	.0	.0	.3	5.1	25.7	15.5	4.1	821	50.8
75/79	.0	.0	.0	.1	1.4	17.5	17.7	8.8	735	45.5
70/74	.0	.0	.0	.0	.0	.1	.2	.4	12	.7
TOTAL	0	0	0	8	119	725	545	219	1616	100.0
PCT	.0	.0	.0	.5	7.4	44.9	33.7	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	.0	.0	.1
.1	1.9	.7	*	.0	.0	.0	.0	.0	.0
3.3	35.0	12.3	.1	.0	.0	.0	.2	.0	.0
3.7	29.1	12.0	.4	.0	*	.1	.2	.0	.1
.0	.4	.3	.1	.0	.0	.0	.0	.0	.0
7.1	66.5	25.2	.6	.0	*	.1	.4	.0	.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	83	82	79	76	75	74	79.2	591
06&09	82	81	81	79	76	74	70	78.6	517
12&15	89	85	84	80	77	75	70	80.1	654
18&21	92	88	86	81	78	75	73	81.1	560
TOT	92	87	84	80	77	75	70	79.8	2322

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	4.3	43.8	35.0	16.4	82	397
06&09	.0	.3	1.6	40.9	42.8	14.4	82	369
12&15	.0	.4	5.8	44.5	36.2	13.0	80	445
18&21	.0	.7	17.0	49.5	21.8	10.9	77	412
TOT	0	8	119	727	548	221	80	1623

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1857-1974

AREA 0002 CAYENNE
6.5N 51.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	# FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.1	3	.0	.2
7/8	.0	.0	.0	.1	.3	.2	10	.0	.6
6	.0	.0	.0	.1	.4	.0	8	.0	.5
5	.0	.0	.1	.2	.6	.0	16	.0	.9
4	.0	.0	.3	.9	.5	.0	29	.0	1.7
3	.0	.0	.2	2.0	.4	.0	44	.0	2.5
2	.0	.0	.9	4.1	.2	.0	91	.0	5.3
1	.0	.0	2.2	5.8	.2	.0	143	.1	8.2
0	.0	.0	10.8	6.6	.0	.0	302	.2	17.3
-1	.0	.0	15.4	5.1	.0	.0	356	.3	20.2
-2	.0	.2	16.3	1.7	.0	.0	316	.1	18.2
-3	.0	.1	9.3	.8	.0	.0	178	.0	10.3
-4	.0	.5	5.5	.2	.0	.0	107	.0	6.2
-5	.0	1.0	2.9	.1	.0	.0	70	.0	4.0
-6	.0	1.1	.8	.0	.0	.0	32	.0	1.8
-7/-8	.0	1.0	.3	.1	.0	.0	24	.0	1.4
-9/-10	.1	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		1127		49			11	1722
		68		481		6	1733		
PCT	.1	3.9	65.0	27.8	2.8	.3	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.6	.3	.0	.0	.0	.9
3-4	.0	.4	1.2	.0	.0	.0	1.6
5-6	.0	.3	2.2	.2	.0	.0	2.7
7	.0	.0	1.1	.3	.0	.0	1.4
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	5.0	.7	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	5.3	3.4	.0	.0	.0	8.8
3-4	.0	2.9	15.3	.7	.0	.0	19.0
5-6	.0	1.7	22.2	1.6	.0	.0	25.6
7	.0	.2	8.8	1.3	.0	.0	10.3
8-9	.0	.2	2.9	1.5	.0	.0	4.6
10-11	.0	.0	.5	.2	.0	.0	.7
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.2	*	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.0	53.5	5.6	.0	.0	70.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.9	.0	.0	.0	3.6
3-4	.0	.9	4.0	.3	.0	.0	5.3
5-6	.0	.3	5.6	.3	.0	.0	6.2
7	.0	.0	3.7	.8	.0	.0	4.5
8-9	.0	.0	.9	.6	.0	.0	1.6
10-11	.0	.0	.3	.1	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	15.4	2.7	.0	.0	22.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	*	.0	.0	.0	*

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0002 CAYENNE 6.5N 51.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	.7	.0	.0	.0	.0	1.0	
1-2	.0	8.6	4.6	.0	.0	.0	13.3	
3-4	.0	4.3	21.0	1.0	.0	.0	26.3	
5-6	.0	2.2	30.1	2.2	.0	.0	34.6	
7	.0	.2	13.6	2.4	.0	.0	16.2	
8-9	.0	.2	4.0	2.4	.0	.0	6.5	
10-11	.0	.0	.9	.3	.0	.0	1.2	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.2	.2	.0	.0	.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	16.2	74.4	9.1	.0	.0	100.0	581

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	3.5	9.2	10.0	2.4	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	4
6-7	.1	.9	4.6	13.9	9.5	4.8	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	494	6
8-9	.0	.1	1.3	6.1	9.2	4.2	.9	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	306	7
10-11	.0	.0	.1	.8	1.0	1.5	.9	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	67	8
12-13	.0	.0	.1	.7	.1	.1	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
>13	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	.1	1.5	2.1	1.2	.8	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	4
TOTAL	4	80	237	445	314	165	67	26	11	1	4	1	0	0	0	0	0	0	0	1355	6
PCT	.3	5.9	17.5	32.8	23.2	12.2	4.9	1.9	.8	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1859-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	1.9	2.2	.0	.0	.0	.0	5.8	3.2	.0	.0	.0	.0		.0	91.0
NE	1.8	1.4	.8	.0	.0	.0	.0	4.0	4.1	.1	1.3	.0	1.7		.0	88.8
E	1.1	1.1	1.3	.0	.0	.0	.2	3.7	2.9	.0	.0	.0	1.1		.0	92.4
SE	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0		.0	90.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
SW	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0		.0	.0
W	20.0	.0	.0	.0	.0	.0	.0	20.0	20.0	.0	.0	.0	.0		.0	60.0
NW	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	1.8	1.4	1.0	.0	.0	.0	*	4.2	3.8	*	.8	.0	1.4		.0	89.8
TOT OBS:	2288															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	2.5	1.6	1.2	.0	.0	.0	.2	5.5	2.5	.0	1.6	.0	.7		.0	89.7
06609	2.0	1.5	1.3	.0	.0	.0	.0	4.7	4.2	.2	.5	.0	.4		.0	90.0
12615	1.5	1.6	.2	.0	.0	.0	.0	3.3	4.6	.0	.7	.0	2.0		.0	89.6
18621	1.4	.9	1.2	.0	.0	.0	.0	3.5	3.6	.0	.5	.0	2.4		.0	89.9
TOT PCT	1.8	1.4	1.0	.0	.0	.0	*	4.2	3.7	*	.8	.0	1.4		.0	89.8
TOT OBS:	2303															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	2.0	3.8	.3	.0	.0		6.4	12.8	6.9	2.3	6.8	3.6	7.2	7.2	6.4	2.9
NE	.1	15.7	46.2	3.4	.0	.0		65.4	14.2	67.5	66.7	64.5	62.7	66.4	65.1	63.3	65.1
E	*	6.5	19.0	1.6	.0	.0		27.2	14.3	25.0	28.9	27.8	31.4	25.3	26.5	30.0	27.9
SE	.0	.4	.2	.0	.0	.0		.6	10.3	.3	2.0	.4	2.3	.6	1.1	.2	1.7
S	.0	*	.0	.0	.0	.0		*	9.0	.0	.0	.0	.0	.0	.0	.0	.4
SW	.0	*	.0	.0	.0	.0		*	9.6	.0	.0	.2	.0	.0	.0	.0	.4
W	.0	.1	*	.0	.0	.0		.2	9.8	.3	.0	.2	.0	.3	.0	.0	.4
NW	.0	.1	*	.0	.0	.0		.1	9.1	*	.0	.2	.0	.2	.0	*	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	14	785	2183	167	0	0	3149		14.1	674	171	576	110	678	218	601	121
TOT PCT	.4	24.9	69.3	5.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	4.0	1.5	.0	.0		6.4	12.8	6.0	6.3	7.2	5.8
NE	3.1	42.3	19.9	.2	.0		65.4	14.2	67.3	64.2	66.1	63.6
E	1.0	17.8	8.3	.1	.0		27.2	14.3	25.8	28.4	25.6	29.7
SE	.1	.4	.1	.0	.0		.6	10.3	.7	.7	.7	.5
S	.0	*	.0	.0	.0		*	9.0	.0	.0	.0	.1
SW	.0	*	.0	.0	.0		*	9.6	.0	.1	.0	.1
W	*	.1	*	.0	.0		.2	9.8	.2	.1	.2	.1
NW	.1	.1	*	.0	.0		.1	9.1	*	.1	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0						.0	.0	.0	.0	.0	.0
TOT OBS	165	2036	939	9	0	3149		14.1	845	686	896	722
TOT PCT	5.2	64.7	29.8	.3	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1859-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.2	26.7	68.8	4.3	.0	.0	13.9	100.0	845
06&09	.0	.1	24.8	69.4	5.7	.0	.0	14.3	100.0	686
12&15	.0	1.1	25.6	67.4	5.9	.0	.0	13.9	100.0	896
18&21	.0	.1	22.2	72.3	5.4	.0	.0	14.5	100.0	722
TOT	0	14	785	2183	167	0	0	14.1		3149
PCT	.0	.4	24.9	69.3	5.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.9	2.2	1.5		4.9
NE	14.6	18.3	21.6	10.0		4.5
E	8.0	8.1	8.8	3.2		4.1
SE	*	.1	*	.0		3.5
S	.0	.0	.0	.0		.0
SW	.0	.0	.0	.1		8.0
W	.0	.1	.1	.1		5.7
NW	*	.0	.1	*		6.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	442	521	601	272	1836	4.5
TOT PCT	24.1	28.4	32.7	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.5	1.0	.4	.1	.1	.0	.0	4.5	
NE	.2	.4	1.1	4.6	8.5	3.4	1.3	.3	.1	*	44.5	
E	.1	*	.2	1.9	2.6	1.4	.6	*	*	.1	21.0	
SE	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
NW	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	7	10	28	131	224	95	38	8	2	2	1291	1836
TOT PCT	.4	.5	1.5	7.1	12.2	5.2	2.1	.4	.1	.1	70.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.1	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.5	.7	.7	.7	.7	.7	.7
* OR >3500	1.7	2.5	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	5.9	7.5	7.8	7.8	7.8	7.8	7.8	7.8
* OR >1000	16.1	19.6	20.1	20.2	20.2	20.2	20.2	20.2
* OR >600	21.1	26.5	27.1	27.2	27.3	27.3	27.3	27.3
* OR >300	22.1	28.0	28.7	28.8	28.8	28.8	28.8	28.8
* OR >150	22.4	28.5	29.2	29.3	29.4	29.4	29.4	29.4
* OR > 0	22.6	28.9	29.6	29.7	29.7	29.7	29.7	29.7
TOTAL	415	532	544	546	547	547	547	547

TOTAL NUMBER OF OBS: 1839 PCT FREQ NH <5/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	11.7	21.7	19.9	12.8	7.5	7.1	7.1	7.9	.2	1917

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1859-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	PCP	*	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	*	.4	*	*	.0	.0	.0	.0	.0	.0	.5	
	PCP	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	*	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	*	.5	.1	.0	.0	.0	*	.0	.0	.0	.7	
	TOT %	.1	.7	.3	.0	.0	.0	*	.0	.0	.0	1.1	
	PCP	.2	1.6	.3	.0	.0	*	*	.0	.0	.0	2.2	
5<10	NO PCP	1.1	10.2	2.4	*	.0	.0	*	.0	.0	.0	13.8	
	TOT %	1.4	11.8	2.7	*	.0	*	.1	.0	.0	.0	16.0	
	PCP	.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	1.2	
10+	NO PCP	5.8	52.1	22.7	.1	.0	.0	.1	.1	.0	.0	80.9	
	TOT %	5.9	52.8	23.2	.1	.0	.0	.1	.1	.0	.0	82.1	
	TOT OBS												2270
	TOT PCT	7.4	65.9	26.2	.1	.0	*	.2	.1	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.3	*	*	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.4	*	*	.0	.0	.0	.0	.0	.0	.5	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	*	.0	.0	.0	.0	.0	.0		.2	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	*	.2	.0	.0	.0	.0	*	.0	.0		.3	
	11-21	*	.4	.3	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.7	.3	.0	.0	.0	*	.0	.0	.0	1.1	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
5<10	4-10	.4	2.4	.6	*	.0	*	.1	.0	.0		3.6	
	11-21	.7	7.9	2.0	.0	.0	.0	.0	.0	.0		10.6	
	22+	.1	.6	.1	.0	.0	.0	.0	.0	.0		.9	
	TOT %	1.3	11.0	2.7	*	.0	*	.1	.0	.0	.0	15.1	
	0-3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.3	
10+	4-10	1.5	12.1	5.2	*	.0	.0	*	.1	.0		18.9	
	11-21	3.4	37.9	17.9	.2	.0	.0	*	*	.0		59.4	
	22+	.2	2.5	1.5	.0	.0	.0	.0	.0	.0		4.3	
	TOT %	5.3	52.5	24.6	.2	.0	.0	.1	.1	.0	.0	82.8	
	TOT OBS												2559
	TOT PCT	6.8	64.9	27.7	.2	.0	*	.2	.1	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1859-1975

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6.6N 52.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	1.1	1.4	6.1	10.6	3.8	1.4	.0	.2	.5	25.1	74.9	443
06&09	.4	.4	1.3	6.8	13.9	5.3	2.2	.4	.2	.0	31.1	68.9	453
12&15	.6	.2	1.3	9.8	11.1	6.2	1.7	.6	.0	.0	31.6	68.4	469
18&21	.4	.4	1.9	5.3	12.3	4.7	2.6	.6	.0	.0	28.1	71.9	530
TOT	7	10	28	132	227	95	38	8	2	2	549	1346	1895
PCT	.4	.5	1.5	7.0	12.0	5.0	2.0	.4	.1	.1	29.0	71.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	1.1	.3	1.8	17.1	79.4	660
06&09	.0	.5	.0	.5	15.6	83.4	591
12&15	.0	.1	.4	1.3	16.0	82.2	702
18&21	.0	.3	.5	.8	12.2	86.2	621
TOT	2	13	8	29	393	2129	2574
PCT	.1	.5	.3	1.1	15.3	82.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	9.6	16.3	74.1	429
06&09	.5	2.5	10.1	22.2	67.7	436
12&15	.7	2.2	12.8	19.6	67.6	454
18&21	.4	2.7	8.7	20.0	71.3	520
TOT	7	46	188	360	1291	1839
PCT	.4	2.5	10.2	19.6	70.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.1	.0	.0	3	.2
85/89	.0	.0	.0	.2	.8	1.6	.3	.3	56	3.0
80/84	.0	.0	.1	.2	5.6	26.7	18.8	3.9	1018	55.2
75/79	.0	.0	.0	.1	.9	17.7	15.9	6.2	752	40.8
70/74	.0	.0	.0	.0	.0	.1	.3	.3	13	.7
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	7	137	850	651	197	1843	100.0
PCT	.0	.0	.1	.4	7.4	46.1	35.3	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	.0	.0	.0
.4	1.9	.7	.0	.0	.0	.0	.0	.0	.0
3.6	36.1	15.2	.1	.0	.0	.2	*	.0	.0
3.3	26.8	10.5	*	.0	.0	.1	.1	.0	.0
.2	.3	.2	.0	.0	.0	.0	*	.0	.0
.0	*	*	.0	.0	.0	.0	.0	.0	.0
7.6	65.2	26.7	.1	.0	.0	.3	.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	83	82	79	77	74	70	79.2	840
06&09	86	82	81	79	76	74	72	78.6	688
12&15	91	86	84	80	77	74	69	80.1	893
18&21	94	88	86	81	78	77	73	81.5	722
TOT	94	87	84	80	77	74	69	79.9	3143

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	3.5	44.8	39.9	11.8	81	451
06&09	.0	.0	2.1	41.5	44.7	11.7	82	436
12&15	.0	.6	6.9	48.5	33.5	10.5	80	495
18&21	.0	1.3	16.6	48.7	24.5	8.9	77	470
TOT	0	9	137	852	656	198	80	1852

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1859-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	*	3	.0	.1
9/10	.0	.0	.0	*	*	.1	.0	4	.0	.2
7/8	.0	.0	*	.1	.4	.1	.0	15	.0	.7
6	.0	.0	*	*	.5	.0	.0	12	.0	.6
5	.0	.0	.1	.2	.5	.1	.0	20	.0	1.0
4	.0	.0	.2	.7	.5	.0	.0	30	.0	1.4
3	.0	.0	.1	1.5	.4	.0	.0	42	*	2.0
2	.0	.0	.8	4.6	.3	.0	.0	119	.1	5.6
1	.0	.0	2.1	6.7	.1	.0	.0	185	.0	8.9
0	.0	*	9.7	8.7	.0	.0	.0	384	.3	18.1
-1	.0	.1	14.7	6.1	.0	.0	.0	434	.2	20.7
-2	.0	.2	14.4	2.6	.0	.0	.0	357	.0	17.2
-3	*	.3	9.0	1.0	.0	.0	.0	216	.0	10.4
-4	.0	.6	5.4	.2	.0	.0	.0	130	.0	6.2
-5	.0	.9	2.3	.1	.0	.0	.0	69	.0	3.3
-6	.0	.9	.6	.0	.0	.0	.0	30	.0	1.4
-7/-8	.0	.8	.1	*	.0	.0	.0	21	.0	1.0
-9/-10	.1	.3	.0	.0	.0	.0	.0	9	.0	.4
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4	88	1242	679	59	8	1	2081	14	2067
PCT	.2	4.2	59.7	32.6	2.8	.4	*	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.4	.7	.0	.0	.0	1.2
3-4	.0	1.2	2.0	.0	.0	.0	3.2
5-6	.0	.5	1.9	.0	.0	.0	2.4
7	.0	.1	.8	.4	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.3	5.3	.4	.0	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.5
1-2	.1	4.0	6.4	.0	.0	.0	10.6
3-4	.0	4.9	15.2	.2	.0	.0	20.4
5-6	.0	2.9	20.0	.7	.0	.0	23.6
7	.0	.2	7.3	.7	.0	.0	8.2
8-9	.0	.0	2.4	.5	.0	.0	2.8
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	12.4	51.6	2.4	.0	.0	66.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.3	2.2	.0	.0	.0	4.5
3-4	.0	1.7	5.5	.1	.0	.0	7.4
5-6	.0	1.1	7.2	.0	.0	.0	8.3
7	.0	.0	2.5	.9	.0	.0	3.4
8-9	.0	.0	.3	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	17.9	1.4	.0	.0	24.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	*	*	.0	.0	.0	.1
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	*	.1	.0	.0	.0	.1

PERIOD: (OVER-ALL) 1963-1975

MARCH

TABLE 18 (CONT)

AREA 0002 CAYENNE 6.6N 52.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.1	*	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	*	.0	.0	.0	.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.7	.1	.0	.0	.0	.9	
1-2	.3	6.7	9.3	.0	.0	.0	16.3	
3-4	.0	8.2	22.9	.3	.0	.0	31.3	
5-6	.0	4.7	29.1	.7	.0	.0	34.5	
7	.0	.3	10.6	2.0	.0	.0	13.0	
8-9	.0	.0	2.6	.7	.0	.0	3.3	
10-11	.0	.0	.1	.3	.0	.0	.4	
12	.0	.0	.1	.1	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								687
TOT PCT	.3	20.5	75.0	4.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	4.7	11.4	12.9	3.4	1.1	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	545	4
6-7	.0	.7	6.5	13.6	10.9	2.9	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	576	6
8-9	.0	.1	.8	4.0	6.2	4.2	1.0	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	264	7
10-11	.0	.3	.3	1.1	1.2	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	7
12-13	.0	.0	.6	.8	.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
>13	.0	.0	.0	.2	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
INDET	.1	1.3	1.8	1.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	4
TOTAL	6	110	339	537	360	157	57	19	2	2	1	0	0	0	0	0	0	0	0	1590	5
PCT	.4	6.9	21.3	33.8	22.6	9.9	3.6	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1865-1974

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.3	.4	2.3	.0	.0	.0	.0	9.0	2.9	1.3	.0	.0	1.9		.0	85.0
NE	1.9	1.9	.8	.0	.0	.0	.0	4.6	3.6	.4	.2	.0	.9		.2	90.3
E	1.9	2.5	.7	.0	.0	.0	.0	4.7	2.9	.3	.8	.0	.8		.0	90.5
SE	14.0	8.1	2.3	.0	.0	.0	.0	24.4	5.8	.0	.0	.0	.0		.0	69.8
S	44.4	22.2	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0		.0	33.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	34.8	.0	17.4	.0	.0	.0	.0	52.2	.0	4.3	.0	.0	.0		.0	43.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
TOT PCT	2.5	2.1	.9	.0	.0	.0	.0	5.4	3.4	.4	.3	.0	.9		.1	89.6
TOT OBS:	2025															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	1.1	1.1	.0	.0	.0	.0	5.0	2.1	.6	.6	.0	1.0		.0	90.8
06&09	2.5	1.9	.8	.0	.0	.0	.0	5.0	4.2	1.0	.2	.0	.8		.0	88.9
12&15	2.6	2.1	1.1	.0	.0	.0	.0	5.5	2.6	.0	.4	.0	1.3		.0	90.2
18&21	2.2	3.2	.6	.0	.0	.0	.0	6.0	4.6	.0	.2	.0	.4		.4	88.3
TOT PCT	2.5	2.1	.9	.0	.0	.0	.0	5.4	3.4	.4	.3	.0	.9		.1	89.6
TOT OBS:	2028															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.7	2.9	.1	.0	.0		4.7	12.6	4.8	2.1	6.0	2.4	4.9	5.7	4.1	3.7
NE	.3	15.9	38.6	3.0	.0	.0		57.8	13.8	58.0	53.7	59.2	54.3	57.1	55.3	60.8	50.5
E	.4	9.4	22.2	2.4	.0	.0		34.4	13.8	34.5	38.8	33.5	37.6	34.6	33.2	32.5	39.9
SE	.2	1.3	.8	.1	.0	.0		2.3	10.0	1.8	4.6	.6	5.7	2.7	4.9	1.3	5.9
S	.1	*	.1	.0	.0	.0		.2	10.0	.4	.4	.1	.0	.0	.3	.5	.0
SW	.0	.1	.0	.0	.0	.0		.1	7.3	.1	.0	.2	.0	.2	.0	.0	.0
W	.0	*	.0	.0	.0	.0		*	5.0	.1	.0	.0	.0	.0	.0	.0	.0
NW	.0	.2	.1	.0	.0	.0		.2	7.9	.0	.4	.3	.0	.2	.5	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.3	.0	.0	.0	.3	.0	.4	.0
TOT OBS	32	783	1766	150	0	0	2731		13.6	603	141	495	105	581	183	529	94
TOT PCT	1.2	28.7	64.7	5.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	3.4	.9	.0	.0		4.7	12.6	4.3	5.4	5.1	4.0
NE	3.2	38.7	15.7	.2	.0		57.8	13.8	57.2	58.4	56.7	59.3
E	2.3	22.4	9.4	.3	.0		34.4	13.8	35.3	34.3	34.2	33.6
SE	.6	1.6	.2	*	.0		2.3	10.0	2.4	1.5	3.2	2.0
S	.1	.1	.1	.0	.0		.2	10.0	.4	.1	.1	.4
SW	.1	*	.0	.0	.0		.1	7.3	.1	.2	.1	.0
W	*	.0	.0	.0	.0		*	5.0	.1	.0	.0	.0
NW	.1	.1	.0	.0	.0		.2	7.9	.1	.3	.3	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.3	.0	.3	.3
TOT OBS	191	1811	715	14	0	2731		13.6	744	600	764	623
TOT PCT	7.0	66.3	26.2	.5	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1865-1974

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	1.1	30.6	63.2	4.8	.0	.0	13.4	100.0	744
06&09	.0	.5	29.7	63.8	6.0	.0	.0	13.7	100.0	600
12&15	.3	1.2	28.1	64.0	6.4	.0	.0	13.5	100.0	764
18&21	.3	1.0	26.0	68.1	4.7	.0	.0	13.7	100.0	623
TOT	6	26	783	1766	150	0	0	13.6		2731
PCT	.2	1.0	28.7	64.7	5.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.0	1.9	1.3		4.7
NE	13.7	17.1	19.8	9.3		4.5
E	8.7	9.2	10.6	4.6		4.3
SE	.1	.1	.1	.3		5.9
S	*	.0	.0	.0		.0
SW	*	*	.1	.1		6.3
W	.0	*	.0	.0		3.0
NW	.1	*	*	.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.1	.1		4.6
TOT OBS	398	453	535	259	1645	4.5
TOT PCT	24.2	27.5	32.5	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.1	.5	.6	.3	.2	.0	.0	.1	3.7	
NE	.5	.3	1.0	4.4	6.9	3.2	1.1	.1	.1	.1	42.4	
E	.1	*	.4	2.9	3.3	1.1	.4	.2	.0	.0	24.7	
SE	.0	.1	.1	.2	*	*	*	.0	.0	.0	.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
SW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	11	9	26	134	179	77	28	4	1	2	1174	1645
TOT PCT	.7	.5	1.6	8.1	10.9	4.7	1.7	.2	.1	.1	71.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.3	.4	.4	.4	.4	.4	.4	.4
= OR >3500	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	5.3	6.5	6.8	6.8	6.8	6.8	6.8	6.8
= OR >1000	13.6	17.0	17.6	17.8	17.8	17.8	17.8	17.8
= OR >600	19.0	25.0	25.6	25.8	25.8	25.8	25.9	25.9
= OR >300	20.0	26.3	27.1	27.4	27.4	27.4	27.4	27.5
= OR >150	20.1	26.6	27.5	27.8	27.8	27.8	27.9	28.0
= OR > 0	20.6	27.1	28.1	28.4	28.4	28.4	28.5	28.6
TOTAL	338	444	460	466	466	466	467	468

TOTAL NUMBER OF OBS: 1638 PCT FREQ NH <5/8: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.4	11.7	20.1	21.2	12.3	6.9	7.5	5.7	8.7 .3	1718

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1865-1974

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	*	.3	.1	.0	*	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.9	.3	.1	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.1	1.1	.4	.1	*	.0	.0	.0	.0	.0	1.8	
5<10	PCP	.2	1.2	.6	.1	*	.0	.0	.1	.0	*	2.3	
	NO PCP	.8	9.4	5.4	.1	.0	*	.0	*	.0	.0	15.7	
	TOT %	1.0	10.5	6.0	.3	*	*	.0	.1	.0	*	18.0	
10+	PCP	.3	1.0	.7	.1	.0	.0	.0	*	.0	.0	2.2	
	NO PCP	4.6	46.5	25.4	.6	*	.1	*	.1	.0	.1	77.4	
	TOT %	4.8	47.5	26.1	.7	*	.1	*	.2	.0	.1	79.6	
	TOT OBS												2014
	TOT PCT	5.9	59.5	32.7	1.1	.1	.1	*	.3	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.2	*	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.2	.2	.1	.0	.0	.0	.0	.0		.5	
	11-21	.1	.9	.4	.0	*	.0	.0	.0	.0		1.4	
	22+	*	.2	.1	*	.0	.0	.0	.0	.0		.3	
	TOT %	.1	1.4	.6	.1	*	.0	.0	.0	.0	.0	2.3	
5<10	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	.2	
	4-10	.2	2.6	1.4	.2	.0	*	.0	.1	.0		4.7	
	11-21	.7	6.9	3.2	.1	.0	.0	.0	.0	.0		10.8	
	22+	.0	.5	.9	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.9	10.0	5.6	.3	*	*	.0	.1	.0	*	17.0	
10+	0-3	.0	.2	.3	*	.0	.0	.0	.0	.0	.1	.7	
	4-10	1.6	13.1	6.7	.5	*	.1	*	.1	.0		22.1	
	11-21	2.7	32.5	18.5	.3	.0	.0	.0	.1	.0		54.0	
	22+	.1	2.0	1.3	.0	.0	.0	.0	.0	.0		3.3	
	TOT %	4.4	47.7	26.8	.8	*	.1	*	.2	.0	.1	80.1	
	TOT OBS												2279
	TOT PCT	5.4	59.4	33.2	1.2	.1	.1	*	.3	.0	.2	100.0	

APRIL

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1865-1974

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	.0	1.4	6.5	8.6	3.4	1.4	.2	.0	.5	23.0	77.0	417
06&09	.3	.8	1.3	10.0	11.3	5.0	1.5	.3	.0	.0	30.3	69.7	399
12&15	.5	1.2	1.7	5.8	9.4	4.1	1.7	.2	.0	.0	24.5	75.5	417
18&21	.9	.2	1.8	9.4	12.9	5.9	2.0	.2	.2	.0	33.6	66.4	456
TOT	11	9	26	134	179	78	28	4	1	2	472	1217	1689
PCT	.7	.5	1.5	7.9	10.6	4.6	1.7	.2	.1	.1	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.0	3.0	18.6	78.1	603
06&09	.0	.2	.0	2.3	17.3	80.2	520
12&15	.0	.2	.8	1.8	15.5	81.7	619
18&21	.4	.0	.6	2.0	16.8	80.2	541
TOT	2	4	8	52	389	1828	2283
PCT	.1	.2	.4	2.3	17.0	80.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	2.2	10.1	13.9	76.0	404
06&09	.3	2.1	13.2	17.7	69.1	385
12&15	.5	3.7	11.3	14.8	73.9	406
18&21	1.1	3.2	13.5	21.2	65.2	443
TOT	11	46	198	278	1162	1638
PCT	.7	2.8	12.1	17.0	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.1	.0	2	.1
85/89	.0	.0	.0	.0	.9	1.9	.6	.2	58	3.6
80/84	.0	.0	.0	.1	4.1	34.9	25.3	6.2	1143	70.6
75/79	.0	.0	.0	.0	.1	8.0	11.3	6.0	411	25.4
70/74	.0	.0	.0	.0	.0	.1	.0	.2	4	.2
TOTAL	0	0	0	2	84	726	603	203	1618	100.0
PCT	.0	.0	.0	.1	5.2	44.9	37.3	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	2.0	1.5	.0	.0	.0	.0	*	.0	.0
3.8	42.1	24.1	.4	*	.1	.0	.1	.0	.1
1.8	14.5	8.2	.5	.1	.0	.0	.2	.0	.1
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
5.7	59.0	33.7	.9	.1	.1	.0	.2	.0	.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	83	82	80	78	75	74	79.9	735
06&09	86	83	82	79	77	75	74	79.3	594
12&15	91	86	84	81	78	76	74	80.8	762
18&21	92	89	86	82	78	76	75	81.9	620
TOT	92	87	84	80	77	75	74	80.5	2711

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.2	40.4	42.1	16.1	82	411
06&09	.0	.0	1.6	42.6	41.3	14.5	82	373
12&15	.0	.2	4.8	47.9	37.2	9.8	80	438
18&21	.0	.0	13.1	48.0	28.9	10.1	78	398
TOT	0	2	84	726	605	203	81	1620

PERIOD: (PRIMARY) 1931-1974
(OVER-ALL) 1865-1974

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.2	5	.0	.3
7/8	.0	.0	.0	.3	.1	6	.0	.3
6	.0	.0	.1	.3	.0	8	.0	.4
5	.0	.1	.2	.7	.0	18	.0	1.0
4	.0	.0	.6	.8	.0	26	.0	1.4
3	.0	.1	1.5	.6	.0	40	.0	2.2
2	.0	.2	4.8	.6	.0	106	.0	5.7
1	.0	1.3	6.4	.4	.0	151	.0	8.1
0	.0	7.2	12.6	.1	.0	367	.1	19.7
-1	.0	11.6	8.7	.0	.0	377	.1	20.2
-2	.0	11.5	4.8	.1	.0	304	.1	16.3
-3	.1	8.8	2.0	.0	.0	202	.0	10.9
-4	.3	5.3	.8	.0	.0	117	.0	6.3
-5	.3	2.3	.3	.0	.0	52	.0	2.8
-6	.5	.9	.1	.0	.0	27	.0	1.5
-7/-8	.6	1.2	.3	.0	.0	39	.0	2.1
-9/-10	.1	.3	.0	.0	.0	6	.0	.3
-11/-13	.1	.1	.0	.0	.0	4	.0	.2
TOTAL	34	941	801	75	5	1856	4	1852
PCT	1.8	50.7	43.2	4.0	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.7	.0	.0	.0	1.0
3-4	.0	.2	1.8	.0	.0	.0	1.9
5-6	.0	.2	.6	.1	.0	.0	.9
7	.0	.2	.7	.2	.0	.0	1.0
8-9	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	3.8	.3	.0	.0	4.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.2	.0	.0	.0	1.0
1-2	*	4.0	7.4	.0	.0	.0	11.4
3-4	.2	5.9	15.8	.3	.0	.0	22.1
5-6	.0	1.7	14.4	1.2	.0	.0	17.3
7	.0	.3	4.4	1.2	.0	.0	5.8
8-9	.0	*	1.2	.0	.0	.0	1.3
10-11	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	12.8	43.5	2.8	.0	.0	59.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.2	.0	.0	.0	1.2
1-2	.1	2.0	3.7	.0	.0	.0	5.8
3-4	.0	3.4	7.7	.2	.0	.0	11.3
5-6	.0	2.5	9.0	.6	.0	.0	12.0
7	.0	.0	2.1	.2	.0	.0	2.3
8-9	.0	.1	.9	.3	.0	.0	1.4
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	9.1	23.9	1.3	.0	.0	34.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	*	.0	.0	.0	*
3-4	.0	*	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	*	.5	.0	.0	.0	.6

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0002 CAYENNE 6.5N 51.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	2.0	.3	.0	.0	.0	2.6	
1-2	.2	6.4	12.0	.0	.0	.0	18.5	
3-4	.2	9.6	25.7	.5	.0	.0	35.9	
5-6	.0	4.4	24.0	1.9	.0	.0	30.2	
7	.0	.5	7.2	1.6	.0	.0	9.2	
8-9	.0	.3	2.2	.3	.0	.0	2.8	
10-11	.0	.0	.5	.2	.0	.0	.6	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								643
TOT PCT	.6	23.2	71.9	4.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.6	15.8	11.0	3.1	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	544	4
6-7	.0	.9	9.3	18.1	6.7	2.2	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	383	5
8-9	.0	.0	1.4	4.0	5.7	1.9	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	7
10-11	.0	.0	.2	1.0	1.4	.6	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	7
12-13	.0	.0	.4	.5	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
>13	.0	.0	.0	.3	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
INDET	.4	.4	1.2	1.0	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
TOTAL	20	86	416	527	259	97	35	19	7	1	0	0	0	0	0	0	0	0	0	1467	5
PCT	1.4	5.9	28.4	35.9	17.7	6.6	2.4	1.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1859-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	1.3	1.6	.0	.0	.0	.0	8.2	3.3	.0	.0	.0	1.0		.0	87.6
NE	3.2	1.9	1.3	.0	.0	.0	.0	6.3	5.7	.3	1.0	.0	1.2		.1	85.3
E	4.8	3.3	2.2	.0	.0	.0	.0	10.0	5.8	.4	.9	.0	1.1		.0	81.9
SE	15.2	5.1	3.3	.0	.0	.0	.0	22.1	6.5	1.8	.0	.0	.0		.0	69.9
S	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
SW	.0	9.8	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0		.0	90.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0		.0	82.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0		.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0		.0	86.7
TOT PCT	4.5	2.5	1.7	.0	.0	.0	.0	8.6	5.6	.5	.9	.0	1.1		*	83.3
TOT OBS:	2089															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	2.5	1.0	.0	.0	.0	.0	6.7	4.2	1.0	1.3	.0	1.2		.0	85.6
06&09	5.8	3.2	2.4	.0	.0	.0	.0	11.2	7.2	1.0	.8	.0	.2		.0	79.8
12&15	4.9	2.5	1.6	.0	.0	.0	.0	8.9	5.1	.0	.7	.0	1.4		.2	83.7
18&21	4.1	2.3	1.9	.0	.0	.0	.0	8.1	6.0	.0	.6	.0	1.5		.0	83.9
TOT PCT	4.6	2.6	1.7	.0	.0	.0	.0	8.7	5.6	.5	.9	.0	1.1		*	83.3
TOT OBS:	2105															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	1.5	1.3	*	.0	.0		2.9	11.3	4.1	1.6	3.1	.8	3.2	.7	3.1	1.8
NE	.7	14.8	30.7	2.3	*	.0		48.5	13.2	48.2	48.4	52.0	44.3	47.5	45.2	48.8	50.2
E	.9	12.7	26.0	2.5	*	.0		42.2	13.4	41.2	43.4	40.5	48.9	44.3	43.0	41.2	38.9
SE	.2	2.0	1.3	*	.0	.0		3.5	10.0	3.0	4.1	2.4	3.8	3.2	6.4	3.7	5.0
S	.1	.4	.2	.0	.0	.0		.7	8.8	.4	.6	.6	.4	.8	1.2	.8	1.4
SW	.1	.2	.1	.0	.0	.0		.4	7.8	.4	.0	.4	.8	.2	.7	.8	.0
W	*	.2	.1	.0	.0	.0		.3	7.2	.5	.9	.0	.0	.3	1.0	.3	.0
NW	.1	.3	.2	.0	.0	.0		.5	9.6	.9	.3	.2	.8	*	1.2	.5	.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.4	.6	.8	.0	.5	.5	.9	1.8
TOT OBS	89	942	1758	144	2	0	2935		12.9	633	160	516	119	639	203	555	110
TOT PCT	3.0	32.1	59.9	4.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	2.0	.4	.0	.0		2.9	11.3	3.6	2.6	2.6	2.9
NE	4.5	32.5	11.4	.2	*		48.5	13.2	48.2	50.6	46.9	49.0
E	4.0	27.2	10.8	.2	*		42.2	13.4	41.6	42.1	44.0	40.8
SE	.8	2.4	.2	.0	.0		3.5	10.0	3.2	2.7	4.0	3.9
S	.3	.4	*	.0	.0		.7	8.8	.4	.6	.9	.9
SW	.3	.1	.1	.0	.0		.4	7.8	.3	.5	.3	.6
W	.2	.1	*	.0	.0		.3	7.2	.6	.0	.5	.2
NW	.1	.3	.1	.0	.0		.5	9.6	.8	.3	.3	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.3	.6	.5	1.1
TOT OBS	339	1905	676	14	1	2935		12.9	793	635	842	665
TOT PCT	11.6	64.9	23.0	.5	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1859-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	2.0	34.7	56.7	5.3	.0	.0	12.7	100.0	793
06&09	.6	1.4	33.2	60.3	4.4	.0	.0	13.1	100.0	635
12&15	.5	3.7	31.9	58.9	4.9	.1	.0	12.7	100.0	842
18&21	1.1	1.2	28.1	64.5	5.0	.2	.0	13.3	100.0	665
TOT	25	64	942	1758	144	2	0	12.9		2935
PCT	.9	2.2	32.1	59.9	4.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.7	1.9	.7		5.1
NE	10.1	12.6	17.9	8.7		4.8
E	6.6	11.9	15.3	8.0		4.9
SE	.5	.4	.6	1.0		5.5
S	.1	.1	.2	.4		6.4
SW	.2	.1	*	.1		3.5
W	.0	.1	.1	*		6.1
NW	*	.1	.3	.0		5.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.4	.2		6.0
TOT OBS	313	451	633	330	1727	4.9
TOT PCT	18.1	26.1	36.7	19.1	100.0	

TABLE A

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.6	.9	.2	.1	*	.0	*	2.1	
NE	.2	.1	.7	4.7	7.0	2.8	.8	.2	.1	.1	32.7	
E	.5	.1	.6	4.3	4.4	2.7	1.6	.3	.1	.0	27.1	
SE	.1	.0	.2	.3	.4	*	*	.0	.0	.0	1.3	
S	.0	.0	.2	.2	.1	.1	.1	.0	.0	.0	.1	
SW	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.3	
W	.0	.0	*	.0	.0	.1	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.2	.0	.0	.1	.0	.0	.3	
TOT OBS	15	3	33	181	226	102	44	10	3	2	1108	1727
TOT PCT	.9	.2	1.9	10.5	13.1	5.9	2.5	.6	.2	.1	64.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.6	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	7.4	9.3	9.4	9.4	9.4	9.4	9.4	9.4
* OR >1000	17.3	22.1	22.6	22.6	22.6	22.6	22.6	22.6
* OR >600	24.2	31.8	32.8	32.9	33.0	33.0	33.0	33.0
* OR >300	25.0	33.4	34.5	34.9	34.9	34.9	34.9	34.9
* OR >150	25.1	33.5	34.7	35.0	35.1	35.1	35.1	35.1
* OR > 0	25.2	34.1	35.6	35.9	36.0	36.0	36.0	36.0
TOTAL	435	589	614	620	621	621	621	621

TOTAL NUMBER OF OBS: 1727

PCT FREQ NH <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.6	8.7	17.8	19.6	13.9	7.7	9.1	7.1	11.8	.6	1867

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1859-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	.2	*	.1	*	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.2	.1	.1	*	.0	.0	.0	.0	.4	
	PCP	.1	.4	.5	.2	.1	.0	.0	.0	.0	.0	1.3	
2<5	NO PCP	.0	.4	.4	*	.0	*	*	.0	.0	.0	.8	
	TOT %	.1	.8	.9	.2	.1	*	*	.0	.0	.0	2.1	
	PCP	.1	1.5	2.2	.4	.0	.0	.0	.0	.0	.0	4.2	
5<10	NO PCP	.7	5.9	5.6	.5	.2	.1	.0	*	.0	.2	13.0	
	TOT %	.8	7.4	7.8	.9	.2	.1	.0	*	.0	.2	17.3	
	PCP	.1	1.2	1.2	.1	*	.0	.0	.0	.0	.0	2.6	
10+	NO PCP	2.7	39.3	31.5	2.1	.3	.4	.2	.4	.0	.5	77.4	
	TOT %	2.8	40.5	32.7	2.2	.4	.4	.2	.4	.0	.5	80.0	
	TOT OBS												2080
	TOT PCT	3.6	48.9	41.5	3.3	.8	.5	.3	.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.2	*	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	*	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
1<2	4-10	.0	*	.2	.0	.0	*	.0	.0	.0		.2	
	11-21	.0	*	*	*	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.5	
	0-3	.0	.1	.0	.0	.0	.0	.0	*	.0	.0	.1	
2<5	4-10	*	.4	.4	.1	.1	*	*	.0	.0		1.1	
	11-21	*	.3	.4	.1	*	.0	.0	.0	.0		.9	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.9	.9	.2	.1	*	*	*	.0	.0	2.3	
	0-3	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	.4	
5<10	4-10	.2	1.9	1.8	.5	.1	*	.0	*	.0		4.7	
	11-21	.4	4.5	4.7	.3	.1	*	.0	.0	.0		10.0	
	22+	*	.5	.7	.0	.0	.0	.0	.0	.0		1.2	
	TOT %	.7	7.0	7.3	.9	.1	.1	.0	*	.0	.2	16.2	
	0-3	.1	.5	.9	.1	*	.1	*	*	.0	.5	2.3	
10+	4-10	1.3	12.0	9.6	1.1	.1	.2	.2	.2	.0		24.7	
	11-21	1.1	26.5	21.6	1.0	.1	.1	.0	.1	.0		50.5	
	22+	.0	1.4	1.9	*	.0	.0	.0	.0	.0		3.3	
	TOT %	2.6	40.4	33.9	2.1	.3	.3	.2	.3	.0	.5	80.7	
	TOT OBS												2398
	TOT PCT	3.3	48.6	42.4	3.2	.7	.5	.2	.4	.0	.7	100.0	

MAY

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1859-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.2	2.3	8.3	11.7	6.0	1.8	.9	.0	.0	31.9	68.1	436
06&09	1.2	.0	1.4	11.6	13.8	5.8	2.2	.5	.0	.2	36.7	63.3	414
12&15	1.1	.2	1.4	9.6	13.5	6.4	2.7	.2	.2	.0	35.5	64.5	437
18&21	.4	.2	2.3	11.3	12.7	5.3	3.1	.6	.4	.2	36.5	63.5	488
TOT	15	3	33	181	229	104	44	10	3	2	624	1151	1775
PCT	.8	.2	1.9	10.2	12.9	5.9	2.5	.6	.2	.1	35.2	64.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.5	.6	2.2	18.1	78.6	625
06&09	.0	.0	.4	1.6	18.0	80.0	551
12&15	.0	.5	.3	2.7	15.0	81.5	660
18&21	.0	.3	.7	2.2	14.0	82.7	578
TOT	0	8	12	54	392	1948	2414
PCT	.0	.3	.5	2.2	16.2	80.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	3.3	11.6	21.0	67.4	423
06&09	1.2	2.7	15.6	21.8	62.6	404
12&15	1.2	2.8	13.9	22.8	63.3	425
18&21	.4	3.2	15.2	22.5	62.3	475
TOT	15	52	243	381	1103	1727
PCT	.9	3.0	14.1	22.1	63.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.2	.1	7	.4
85/89	.0	.0	.0	.2	1.1	3.0	1.3	.2	96	5.7
80/84	.0	.0	.0	.0	2.3	28.3	33.2	7.8	1198	71.6
75/79	.0	.0	.0	.0	.0	2.8	9.1	10.0	367	21.9
70/74	.0	.0	.0	.0	.0	.0	.1	.3	6	.4
TOTAL	0	0	0	5	58	571	733	307	1674	100.0
PCT	.0	.0	.0	.3	3.5	34.1	43.8	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.2	.0	.0	.0	.0	.0	.0	.0
.2	3.2	2.2	.1	.0	.0	.0	.0	.0	.0
2.5	37.7	28.4	1.6	.3	.3	.2	.2	.0	.3
1.0	8.8	9.9	1.0	.4	.2	.1	.1	.0	.5
.0	.2	*	.1	.0	.1	.0	.0	.0	.0
3.7	50.1	40.7	2.8	.7	.5	.3	.3	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	83	82	80	77	75	72	80.1	785
06&09	88	83	82	80	77	75	72	79.5	631
12&15	91	86	84	81	77	75	73	81.1	834
18&21	93	89	87	82	78	76	74	82.1	653
TOT	93	87	85	81	77	75	72	80.7	2903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.4	26.9	49.5	22.1	84	420
06&09	.0	.3	.8	27.1	47.9	24.1	84	399
12&15	.0	.0	3.4	38.0	41.8	16.8	82	440
18&21	.0	.9	8.2	43.3	36.5	11.0	79	427
TOT	0	5	59	573	739	310	82	1686

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1859-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
7/8	.0	.0	.1	.0	.3	.3	.0	13	.0	.7
6	.0	.0	.0	.0	.2	.0	.0	3	.0	.2
5	.0	.0	.1	.2	.8	.0	.0	20	.0	1.0
4	.0	.1	.0	.7	1.0	.0	.0	34	.0	1.7
3	.0	.0	.0	1.1	1.5	.0	.0	51	.0	2.6
2	.0	.0	.3	5.3	1.1	.0	.0	131	.1	6.6
1	.0	.0	.5	8.0	.6	.0	.0	176	.1	8.9
0	.0	.0	3.8	12.5	.1	.0	.0	319	.5	15.8
-1	.0	.0	6.9	9.5	.1	.0	.0	323	.2	16.3
-2	.0	.1	8.6	6.8	.1	.0	.0	304	.1	15.5
-3	.0	.0	8.9	3.4	.0	.0	.0	241	.0	12.3
-4	.0	.4	6.1	1.2	.0	.0	.0	152	.0	7.8
-5	.0	.5	3.6	.2	.0	.0	.0	84	.0	4.3
-6	.0	.8	1.6	.1	.0	.0	.0	48	.1	2.4
-7/-8	.0	1.5	.8	.0	.0	.0	.0	44	.0	2.2
-9/-10	.0	.3	.1	.0	.0	.0	.0	6	.0	.3
-11/-13	.1	.0	.1	.0	.0	.0	.0	3	.0	.2
TOTAL	2		809		109		1		17	1940
		70		956		10		1957		
PCT	.1	3.6	41.3	48.9	5.6	.5	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.2	.4	.3	.0	.0	.0	.8
3-4	.0	.9	.4	.0	.0	.0	1.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	1.1	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.0	.0	.0	.0	1.6
1-2	.0	4.1	4.4	.0	.0	.0	8.5
3-4	.0	3.0	14.6	1.2	.0	.0	18.8
5-6	.0	1.5	15.5	.9	.0	.0	17.9
7	.0	.4	4.9	1.1	.0	.0	6.4
8-9	.0	.0	.3	.2	.0	.0	.6
10-11	.0	.0	.2	*	.0	.0	.2
12	.0	.0	.3	.2	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	10.4	40.2	3.7	.0	.0	54.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	5.0	3.2	.0	.0	.0	8.2
3-4	.0	2.2	10.9	1.0	.0	.0	14.1
5-6	.0	.7	8.6	.9	.0	.0	10.2
7	.0	.3	3.2	.3	.0	.0	3.8
8-9	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	26.4	2.7	.0	.0	37.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.3	.2	.0	.0	.0	.6
3-4	.0	.8	.1	.0	.0	.0	.9
5-6	.0	.0	.4	*	.0	.0	.4
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.0	*	.0	.0	2.2

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	2.8	.0	.0	.0	.0	4.5	
1-2	.2	10.2	8.1	.0	.0	.0	18.4	
3-4	.2	7.1	26.0	2.2	.0	.0	35.5	
5-6	.0	2.2	24.7	1.9	.0	.0	28.8	
7	.0	.7	8.3	1.4	.0	.0	10.3	
8-9	.0	.0	.5	.3	.0	.0	.9	
10-11	.0	.0	.5	.3	.0	.0	.9	
12	.0	.0	.5	.2	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								580
TOT PCT	2.1	22.9	68.6	6.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	8.3	16.1	9.2	2.3	1.1	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	580	4
6-7	.0	.9	9.4	15.7	8.1	3.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	576	5
8-9	.0	.0	1.4	3.9	5.4	1.8	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	6
10-11	.0	.0	.3	.8	.8	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
12-13	.0	.0	.3	.3	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
>13	.0	.0	.0	.2	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
INDET	.7	1.1	.9	1.0	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	4
TOTAL	25	155	425	466	256	106	47	17	3	0	0	0	0	0	0	0	0	0	0	1500	5
PCT	1.7	10.3	28.3	31.1	17.1	7.1	3.1	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1856-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	4.0	3.7	.0	.0	.0	.0	12.1	3.2	3.2	.0	.0	.0		.0	81.6
NE	4.8	4.3	1.4	.0	.0	.0	.0	10.3	6.0	1.3	.4	.0	.5		.2	81.4
E	4.9	4.4	1.7	.0	.0	.0	.0	10.8	5.6	.9	.3	.0	.3		.2	82.0
SE	3.4	8.5	1.9	.0	.0	.0	.0	13.8	6.4	.3	.6	.0	.0		.0	78.9
S	13.4	11.0	2.4	.0	.0	.0	.0	26.8	6.1	.0	.0	.0	.0		.0	67.1
SW	6.7	8.3	13.3	.0	.0	.0	.0	21.7	8.3	.0	.0	.0	.0		.0	70.0
W	8.9	15.6	.0	.0	.0	.0	.0	24.4	.0	.0	.0	.0	.0		.0	75.6
NW	12.5	1.0	.0	.0	.0	.0	.0	13.5	4.2	.0	.0	.0	.0		.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.6	2.6	.0	.0	.0	.0	.0	5.1	2.6	5.1	.0	.0	.0		.0	87.2
TOT PCT	5.0	4.8	1.7	.0	.0	.0	.0	11.4	5.6	1.1	.3	.0	.3		.1	81.2
TOT OBS:	2007															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.3	5.1	1.4	.0	.0	.0	.0	10.7	3.9	.8	.4	.0	.0		.2	84.0
06&09	4.9	6.6	3.1	.0	.0	.0	.0	14.3	7.8	3.3	.2	.0	.4		.0	74.2
12&15	6.5	5.0	1.1	.0	.0	.0	.0	12.2	4.1	.0	.6	.0	.4		.2	82.6
18&21	5.4	3.7	1.3	.0	.0	.0	.0	10.2	6.9	.4	.0	.0	.4		.2	81.9
TOT PCT	5.3	5.1	1.7	.0	.0	.0	.0	11.8	5.7	1.1	.3	.0	.3		.1	80.7
TOT OBS:	2035															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.2	.8	.0	.0	.0		3.7	7.7	4.1	4.1	6.1	1.3	3.2	2.7	2.8	2.6
NE	1.3	15.6	16.3	1.0	.0	.0		34.2	11.4	37.5	36.1	37.6	33.9	33.6	25.9	30.7	34.1
E	1.9	20.5	21.8	1.3	.0	.0		45.5	11.5	44.4	41.3	44.4	43.6	47.0	44.3	48.7	41.4
SE	.5	6.4	3.2	.2	.0	.0		10.4	9.6	8.5	15.3	7.6	16.5	10.8	15.2	8.8	16.1
S	.4	1.4	.4	.0	.0	.0		2.2	7.5	1.7	1.3	.4	2.1	2.0	5.9	3.4	3.6
SW	.1	.5	.2	.1	.0	.0		.9	9.3	.2	.6	.4	.8	.9	2.6	1.6	.0
W	*	.3	.1	.0	.0	.0		.5	9.4	.2	.3	.6	.0	.3	1.1	.8	.0
NW	.1	.6	.2	.0	.0	.0		.9	8.2	.8	.3	.9	.8	1.1	1.4	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.7	.6	2.0	.8	1.0	1.0	2.2	2.1
TOT OBS	192	1320	1197	70	0	0	2779		10.8	585	158	493	118	587	196	546	96
TOT PCT	6.9	47.5	43.1	2.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	2.1	.1	.0	.0		3.7	7.7	4.1	5.2	3.1	2.8
NE	6.3	21.8	6.0	.1	.0		34.2	11.4	37.2	36.9	31.7	31.2
E	9.1	28.7	7.5	.2	.0		45.5	11.5	43.7	44.2	46.3	47.6
SE	3.0	6.5	.9	.0	.0		10.4	9.6	10.0	9.3	11.9	9.9
S	1.0	1.1	.1	.0	.0		2.2	7.5	1.6	.7	3.0	3.4
SW	.4	.3	.1	*	.0		.9	9.3	.3	.5	1.3	1.4
W	.1	.3	*	.0	.0		.5	9.4	.2	.5	.5	.7
NW	.4	.5	.1	.0	.0		.9	8.2	.7	.9	1.2	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.3	1.8	1.0	2.2
TOT OBS	656	1707	408	8	0	2779		10.8	743	611	783	642
TOT PCT	23.6	61.4	14.7	.3	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1856-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	5.2	47.0	43.2	2.3	.0	.0	10.7	100.0	743
06&09	1.8	5.1	47.8	43.0	2.3	.0	.0	10.7	100.0	611
12&15	1.0	4.9	49.4	42.1	2.6	.0	.0	10.8	100.0	783
18&21	2.2	5.3	45.5	44.1	3.0	.0	.0	10.9	100.0	642
TOT	50	142	1320	1197	70	0	0	10.8		2779
PCT	1.8	5.1	47.5	43.1	2.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.1	1.1	.9		5.0
NE	5.2	9.2	13.5	7.6		5.1
E	6.8	13.7	18.5	8.3		5.0
SE	.9	2.0	2.5	1.8		5.2
S	.2	.4	.8	.5		5.5
SW	.0	.1	.2	.3		6.9
W	.1	.0	.3	.2		6.6
NW	.2	.2	.3	.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.8	.6	.5		5.1
TOT OBS	229	435	600	323	1587	5.1
TOT PCT	14.4	27.4	37.8	20.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.3	.8	*	*	.0	.1	.0	2.3	
NE	.1	.2	.8	3.5	5.5	2.1	.9	.1	.1	.0	22.0	
E	.4	.3	.8	5.1	6.8	2.4	.5	.2	.1	.1	30.5	
SE	.0	.1	.3	.9	1.3	.3	.2	.0	.0	.1	4.0	
S	.0	.0	.1	.3	.2	.1	.0	.1	.0	.0	1.2	
SW	.1	.0	.1	*	.1	.1	.1	.0	.0	.0	.1	
W	.1	.0	.0	.1	.0	.1	*	*	.1	.0	.2	
NW	.0	.0	*	.2	.1	.0	*	*	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.1	.4	.1	.0	.0	.0	.0	1.6	
TOT OBS	11	12	34	168	242	81	29	8	6	3	993	1587
TOT PCT	.7	.8	2.1	10.6	15.2	5.1	1.8	.5	.4	.2	62.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.5	.5	.6	.6	.6	.6	.6
* OR >5000	.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.9	2.6	2.8	2.9	2.9	2.9	2.9	2.9
* OR >2000	5.8	7.6	7.9	8.0	8.1	8.1	8.1	8.1
* OR >1000	17.7	22.3	23.0	23.2	23.2	23.2	23.2	23.3
* OR >600	24.4	32.2	33.4	33.8	33.9	33.9	33.9	34.0
* OR >300	25.7	34.1	35.6	35.9	36.1	36.1	36.1	36.1
* OR >150	26.1	34.7	36.2	36.6	36.7	36.7	36.7	36.8
* OR > 0	26.5	35.1	36.8	37.3	37.4	37.4	37.4	37.4
TOTAL	423	561	588	595	597	597	597	598

TOTAL NUMBER OF OBS: 1597

PCT FREQ NH <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.5	6.7	18.9	19.3	14.8	9.2	9.0	6.6	12.7 .3	1680

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1856-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	*	.0	*	*	.0	.0	.1	
	TOT %	*	.1	.3	.0	*	.0	*	*	.0	.0	.5	
	PCP	*	.4	.6	.2	.1	.1	*	*	.0	.0	1.5	
2<5	NO PCP	.0	.2	.3	.1	*	.0	.0	.0	.0	.0	.7	
	TOT %	*	.6	.9	.3	.2	.1	*	*	.0	.0	2.2	
	PCP	.2	1.8	2.6	.6	.2	.1	*	.1	.0	*	5.6	
5<10	NO PCP	.6	3.2	5.2	1.3	.1	.2	*	.2	.0	.1	10.9	
	TOT %	.8	5.0	7.8	1.9	.2	.3	.1	.3	.0	.1	16.5	
	PCP	.2	1.1	1.6	.2	.2	.0	*	*	.0	*	3.5	
10+	NO PCP	3.2	26.4	36.9	5.8	1.3	.4	.3	.7	.0	1.7	76.8	
	TOT %	3.4	27.5	38.5	6.0	1.6	.4	.4	.8	.0	1.8	80.3	
	TOT OBS												2003
	TOT PCT	4.3	33.3	47.6	8.3	2.0	.7	.6	1.2	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	*	.0	*	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.1	
1<2	4-10	*	.1	.2	.0	.0	.0	*	*	.0		.4	
	11-21	.0	*	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.4	.0	*	.0	*	*	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.2	.6	.2	.1	.0	.0	.0	.0		1.0	
	11-21	*	.4	.4	.2	.1	.1	*	*	.0		1.1	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	.6	1.0	.4	.2	.1	*	*	.0	.0	2.2	
	0-3	*	.2	.4	.2	.0	.0	*	.0	.0	.1	1.0	
5<10	4-10	.5	1.9	3.1	1.1	.1	.1	.0	.2	.0		7.1	
	11-21	.2	2.4	3.9	.5	.1	*	*	.1	.0		7.2	
	22+	.0	.3	.2	*	.0	*	.0	.0	.0		.5	
	TOT %	.7	4.7	7.4	1.9	.2	.2	.1	.3	.0	.1	15.8	
	0-3	.7	1.2	1.5	.3	.2	.1	.0	.2	.0	1.7	6.0	
10+	4-10	1.8	13.5	17.5	4.1	1.1	.2	.3	.5	.0		39.1	
	11-21	.6	12.6	18.4	2.3	.3	.1	*	.1	.0		34.4	
	22+	.0	.6	.8	.0	.0	*	.0	.0	.0		1.4	
	TOT %	3.1	27.9	38.3	6.7	1.7	.4	.4	.7	.0	1.7	81.0	
	TOT OBS												2279
	TOT PCT	4.0	33.5	47.3	9.1	2.1	.7	.5	1.1	.0	1.8	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1856-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	1.1	1.6	8.2	15.8	5.3	1.8	.5	.3	.0	35.1	64.9	379
06&09	1.0	.5	1.0	12.9	14.2	3.3	1.8	.8	.8	.3	36.5	63.5	395
12&15	.8	1.0	3.0	9.1	14.6	6.0	1.8	.3	.0	.3	36.8	63.2	397
18&21	.4	.4	2.5	11.2	14.5	5.5	1.9	.4	.4	.2	37.5	62.5	475
TOT	11	12	34	171	243	83	30	8	6	3	601	1045	1646
PCT	.7	.7	2.1	10.4	14.8	5.0	1.8	.5	.4	.2	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.0	.5	3.3	18.0	78.1	579
06&09	.2	.6	.9	1.9	15.5	80.9	535
12&15	.0	.5	1.1	1.9	17.0	79.5	623
18&21	.0	.0	.2	1.9	13.7	84.2	570
TOT	2	6	16	52	371	1860	2307
PCT	.1	.3	.7	2.3	16.1	80.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	3.0	12.3	23.8	63.9	366
06&09	1.3	3.4	17.9	20.3	61.7	379
12&15	.8	4.6	14.9	22.4	62.7	389
18&21	.4	3.5	16.2	22.7	61.1	463
TOT	12	58	246	356	995	1597
PCT	.8	3.6	15.4	22.3	62.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.4	.4	.0	.0	16	1.0
85/89	.0	.0	.0	.1	1.4	3.7	.7	.4	101	6.2
80/84	.0	.0	.0	.1	1.8	25.3	30.1	8.6	1071	65.9
75/79	.0	.0	.0	.0	.1	1.5	13.1	11.8	430	26.5
70/74	.0	.0	.0	.0	.0	.0	.1	.4	7	.4
TOTAL	0	0	0	6	61	501	714	343	1625	100.0
PCT	.0	.0	.0	.4	3.8	30.8	43.9	21.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.4	.2	.1	.0	.0	.1	.0	.0
.2	1.7	3.4	.5	.2	.0	.0	.1	.0	.1
2.7	23.6	31.8	5.0	.8	.3	.1	.6	.0	1.1
1.2	9.3	11.0	2.7	.5	.4	.3	.3	.0	.8
.0	.1	.2	.1	.1	.0	.0	.0	.0	.0
4.2	34.7	46.8	8.4	1.6	.7	.5	1.0	.0	2.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	82	80	77	75	71	80.1	739
06&09	84	83	82	80	76	75	73	79.4	617
12&15	93	88	85	81	77	75	73	80.9	783
18&21	93	91	87	82	77	74	73	82.0	637
TOT	93	88	85	81	77	75	71	80.6	2776

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.0	26.0	51.4	20.6	84	393
06&09	.0	.0	.0	23.7	47.8	28.5	85	393
12&15	.0	.5	3.2	31.2	43.6	21.7	83	443
18&21	.0	1.0	9.3	41.1	33.5	15.1	80	418
TOT	0	6	61	505	723	352	83	1647

JUNE

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1856-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.3	.3	11	.0	.6
7/8	.0	.0	.0	.0	.4	.2	.1	12	.0	.7
6	.0	.0	.0	.1	.1	.2	.0	7	.0	.4
5	.0	.0	.0	.3	1.2	.1	.0	29	.0	1.6
4	.0	.0	.0	.5	1.0	.1	.0	29	.0	1.6
3	.0	.0	.0	1.0	1.0	.0	.0	37	.0	2.0
2	.0	.0	.2	3.8	.7	.0	.0	86	.1	4.6
1	.0	.0	.7	5.8	1.0	.0	.0	137	.1	7.4
0	.0	.1	2.1	10.1	.3	.0	.0	230	.0	12.5
-1	.0	.1	3.6	10.5	.2	.0	.0	263	.1	14.3
-2	.0	.1	8.9	6.6	.1	.0	.0	287	.1	15.5
-3	.0	.1	10.2	4.7	.0	.0	.0	276	.0	15.0
-4	.0	.6	8.5	1.0	.0	.0	.0	185	.1	10.0
-5	.0	.4	4.9	.4	.0	.0	.0	104	.0	5.7
-6	.0	.8	2.2	.0	.0	.0	.0	55	.0	3.0
-7/-8	.0	1.9	1.8	.2	.0	.0	.0	71	.0	3.9
-9/-10	.0	.6	.1	.0	.0	.0	.0	13	.0	.7
-11/-13	.2	.1	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	3		793		109		6		6	1831
		84		826		16		1837		
PCT	.2	4.6	43.2	45.0	5.9	.9	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.2	.0	.0	.0	.9
1-2	.3	.8	.3	.0	.0	.0	1.4
3-4	.0	.6	.4	.0	.0	.0	1.0
5-6	.0	.3	.2	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	1.3	.0	.0	.0	3.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	*	.0	.0	.0	1.5
1-2	.5	8.2	2.2	.0	.0	.0	11.0
3-4	.0	4.9	8.0	.0	.0	.0	12.9
5-6	.0	1.6	5.3	.8	.0	.0	7.7
7	.0	.0	1.6	.2	.0	.0	1.8
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.5	.0	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	15.9	18.2	1.1	.0	.0	35.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.3
1-2	.2	12.0	2.6	.0	.0	.0	14.8
3-4	.3	5.9	8.5	.3	.0	.0	15.0
5-6	.2	1.4	7.0	.3	.0	.0	8.8
7	.0	.2	2.5	.1	.0	.0	2.8
8-9	.0	.0	.5	.2	.0	.0	.6
10-11	.0	.0	.4	.2	.0	.0	.6
12	.0	.2	.0	.2	.0	.0	.3
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	21.4	21.9	1.2	.0	.0	45.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6
1-2	.2	2.6	1.7	.0	.0	.0	4.6
3-4	*	1.3	1.3	.0	.0	.0	2.7
5-6	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.6	3.8	.0	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1975

JUNE

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TABLE 18 (CONT)

6.6N 52.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	.6	.4	.0	.0	.0	1.3	.3	.2	.0	.0	.0	.0	.5
3-4	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.4	.0	.0	.0	1.7	.3	.2	.0	.0	.0	.0	.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	*	.0	.0	.0	*	
1-2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.2	.0	.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.2	.0	.0	.0	.3	.2	.5	.2	.0	.0	.0	.9	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	4.2	.5	.0	.0	.0	8.1	
1-2	1.9	24.8	7.4	.0	.0	.0	34.1	
3-4	.3	13.3	18.1	.3	.0	.0	32.0	
5-6	.2	3.4	13.3	1.1	.0	.0	18.0	
7	.0	.2	4.4	.3	.0	.0	4.9	
8-9	.0	.0	.8	.2	.0	.0	1.0	
10-11	.0	.0	.5	.2	.0	.0	.6	
12	.0	.2	.2	.2	.0	.0	.5	
13-16	.0	.0	.6	.0	.0	.0	.6	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	46.0	46.0	2.3	.0	.0	100.0	618

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	10.8	17.6	7.1	2.4	.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	604	3
6-7	.0	1.8	8.9	13.1	4.3	1.8	1.2	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	5
8-9	.0	.2	2.1	3.4	3.5	1.6	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	165	6
10-11	.0	.1	.4	1.1	1.1	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
12-13	.0	.0	.6	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
>13	.0	.1	.2	.4	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
INDET	2.5	1.5	1.6	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	2
TOTAL	84	205	444	374	164	68	32	19	16	2	0	0	0	0	0	0	0	0	0	1408	4
PCT	6.0	14.6	31.5	26.6	11.6	4.8	2.3	1.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1855-1975

AREA 0002 CAYENNE
6.8N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	1.6	.5	2.5	.0	.0	.0	.0	4.6	4.1	.0	2.3	.0	.9		.0	88.1
NE	3.0	4.0	.4	.0	.0	.0	.0	7.4	4.3	.6	2.5	.0	.4		.0	84.9
E	2.6	2.3	.6	.0	.0	.0	.0	5.6	3.3	.9	.5	.0	.0		.0	89.7
SE	2.2	2.5	1.2	.0	.0	.0	.0	5.8	3.9	.5	.5	.0	.5		.0	88.7
S	4.4	2.9	.8	.0	.0	.0	.0	8.1	6.5	.0	.5	.0	.0		.0	84.9
SW	3.5	4.3	.0	.0	.0	.0	.0	7.8	3.5	.0	12.2	.0	.0		.0	76.5
W	7.8	7.8	3.9	.0	.0	.0	.0	19.5	5.2	.0	.0	.0	.0		.0	75.3
NW	11.0	6.9	3.5	.0	.0	.0	.0	21.4	11.6	.0	.0	.0	.0		.0	67.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.8	2.4	2.4	.0	.0	.0	.0	9.6	2.4	1.2	.0	.0	2.4		.0	84.3
TOT PCT	3.0	2.8	.9	.0	.0	.0	.0	6.7	4.0	.6	1.2	.0	.3		.0	87.2
TOT OBS:	2168															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.1	2.3	.7	.0	.0	.0	.0	5.1	2.8	1.4	2.8	.0	.2		.0	87.6
06&09	4.6	3.2	1.3	.0	.0	.0	.0	9.1	3.4	1.3	1.0	.0	.4		.0	84.8
12&15	3.6	2.7	.7	.0	.0	.0	.0	7.0	4.9	.0	1.9	.0	.5		.0	85.7
18&21	2.0	3.8	.9	.0	.0	.0	.0	6.7	4.6	.0	.9	.0	.2		.0	87.6
TOT PCT	3.0	3.0	.9	.0	.0	.0	.0	7.0	3.9	.7	1.7	.0	.3		.0	86.5
TOT OBS:	2230															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	2.5	.8	*	.0	.0		4.1	7.1	4.1	3.0	5.5	2.0	5.0	4.1	3.1	1.3
NE	2.1	14.9	5.7	.2	.0	.0		22.8	8.6	24.6	27.6	23.1	24.6	20.6	25.0	19.6	26.7
E	2.5	27.1	10.9	.2	.0	.0		40.8	9.0	42.6	32.7	43.9	39.1	41.3	35.7	42.0	30.6
SE	1.4	12.5	4.3	.0	.0	.0		18.2	8.5	15.4	19.7	16.0	20.2	19.8	19.1	20.0	19.8
S	.6	3.3	1.1	*	.0	.0		5.1	8.1	4.3	8.2	3.0	5.2	4.9	7.1	5.6	9.9
SW	.6	1.4	.2	.0	.0	.0		2.2	6.2	1.6	5.2	.9	4.0	1.2	3.8	2.2	8.6
W	.4	.6	*	.0	.0	.0		1.0	5.2	.8	.0	.6	1.2	1.6	1.2	1.0	1.7
NW	.4	.9	.3	*	.0	.0		1.6	8.0	2.0	1.8	1.8	.4	1.3	1.2	2.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	4.6	1.8	5.1	3.2	4.3	2.8	4.4	.9
TOT OBS	394	1918	711	17	0	0	3040		8.2	678	165	526	124	654	211	566	116
TOT PCT	13.0	63.1	23.4	.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	1.5	.1	.0	.0		4.1	7.1	3.9	4.8	4.8	2.8
NE	8.8	12.8	1.2	*	.0		22.8	8.6	25.2	23.4	21.7	20.8
E	13.2	25.7	1.8	*	.0		40.8	9.0	40.6	43.0	39.9	40.1
SE	6.7	11.0	.5	.0	.0		18.2	8.5	16.3	16.8	19.7	20.0
S	2.1	2.9	.1	.0	.0		5.1	8.1	5.0	3.5	5.4	6.3
SW	1.4	.7	.1	.0	.0		2.2	6.2	2.3	1.5	1.8	3.3
W	.7	.3	.0	.0	.0		1.0	5.2	.6	.7	1.5	1.1
NW	.7	.9	.0	*	.0		1.6	8.0	2.0	1.5	1.2	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	4.0	4.8	3.9	3.8
TOT OBS	1224	1697	116	3	0	3040		8.2	843	650	865	682
TOT PCT	40.3	55.8	3.8	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1855-1975

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	7.9	62.8	24.6	.7	.0	.0	8.4	100.0	843
06&09	4.8	8.6	62.2	24.0	.5	.0	.0	8.3	100.0	650
12&15	3.9	9.6	63.7	22.2	.6	.0	.0	8.0	100.0	865
18&21	3.8	9.2	63.6	22.9	.4	.0	.0	8.2	100.0	682
TOT	125	269	1918	711	17	0	0	8.2		3040
PCT	4.1	8.8	63.1	23.4	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.2	2.1	.8		5.0
NE	5.3	6.5	7.0	2.3		4.3
E	12.4	13.2	13.4	4.3		4.1
SE	4.8	5.2	6.4	2.0		4.3
S	1.0	.8	2.2	.6		4.8
SW	.1	.2	.7	*		5.0
W	*	.1	.3	.2		5.8
NW	.4	.3	.6	.6		4.9
VAR	.0	.0	.0	.0		.0
CALM	.8	1.2	1.8	.5		4.6
TOT OBS	464	522	624	205	1815	4.3
TOT PCT	25.6	28.8	34.4	11.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	*	.3	.8	.3	.1	.0	.0	.0	3.1	
NE	.3	.0	.2	2.0	2.0	.8	.3	.1	.0	.0	15.4	
E	.1	.2	.6	2.9	4.7	1.4	.8	.4	.1	.1	31.7	
SE	.2	.0	.2	1.1	2.1	1.3	.2	.1	*	.1	13.2	
S	*	.0	.1	.4	.6	.3	.1	.0	.0	.0	2.9	
SW	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.9	
W	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.3	
NW	.0	.0	.0	.1	.3	.2	.1	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.5	.3	.1	.1	.0	.1	3.1	
TOT OBS	12	5	23	133	203	83	33	12	3	5	1303	1815
TOT PCT	.7	.3	1.3	7.3	11.2	4.6	1.8	.7	.2	.3	71.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	6.2	7.3	7.6	7.6	7.6	7.6	7.6	7.6
* OR >1000	14.8	18.1	18.7	18.8	18.8	18.8	18.8	18.8
* OR >600	20.2	25.0	25.7	25.9	26.0	26.0	26.0	26.0
* OR >300	21.0	26.3	26.9	27.2	27.2	27.2	27.2	27.2
* OR >150	21.2	26.4	27.2	27.4	27.5	27.5	27.5	27.5
* OR > 0	21.3	27.0	27.9	28.2	28.3	28.3	28.3	28.3
TOTAL	393	499	516	521	522	522	522	522

TOTAL NUMBER OF OBS: 1847 PCT FREQ NH <5/8: 71.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.3	12.6	21.0	20.0	12.6	7.8	7.6	6.4	6.3 .5	1928

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1855-1975

AREA 0002 CAYENNE
6.0N 52.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.1	.1	*	.0	*	.0	.0	*	.4	
1<2	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	*	.0	*	.0	.0	*	.5	
	PCP	.0	.2	.3	.1	.1	.0	*	*	.0	.1	.8	
2<5	NO PCP	.0	*	.1	.1	*	*	.0	*	.0	.0	.4	
	TOT %	.0	.2	.4	.2	.1	*	*	.1	.0	.1	1.2	
	PCP	.1	.8	1.0	.3	.1	*	*	.2	.0	.2	2.7	
5<10	NO PCP	.9	1.8	2.5	1.5	.2	.3	.1	.2	.0	.1	7.6	
	TOT %	1.0	2.6	3.5	1.9	.3	.3	.1	.4	.0	.3	10.3	
	PCP	.1	.5	.9	.5	.1	.1	*	.1	.0	*	2.5	
10+	NO PCP	3.9	17.9	38.4	14.9	3.9	.9	.6	1.3	.0	3.3	85.2	
	TOT %	4.1	18.5	39.3	15.4	4.0	1.0	.7	1.5	.0	3.4	87.7	
	TOT OBS												2168
	TOT PCT	3.0	21.5	43.5	17.6	4.4	1.3	.9	2.0	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	4-10	.0	.1	.2	.1	*	.0	*	.0	.0		.4	
	11-21	.0	.1	*	.1	*	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.1	.1	.0	*	.0	.0	*	.6	
	0-3	.0	.0	*	.0	.0	*	*	*	.0	.1	.2	
2<5	4-10	.0	.1	.4	.2	.1	.1	.0	*	.0		.9	
	11-21	.0	.1	.2	.1	*	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.6	.2	.1	.1	*	.1	.0	.1	1.5	
	0-3	.1	.2	.1	.1	*	.1	.0	.1	.0	.3	1.0	
5<10	4-10	.4	1.4	2.3	1.2	.2	.3	.1	.3	.0		6.1	
	11-21	.3	.8	1.0	.6	.1	*	.0	*	.0		2.8	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.9	2.4	3.5	1.9	.3	.4	.1	.4	.0	.3	10.1	
	0-3	.8	1.7	2.4	1.3	.5	.4	.3	.3	.0	3.7	11.4	
10+	4-10	2.3	13.1	25.2	10.5	2.8	.9	.4	.6	.0		55.8	
	11-21	.6	4.5	10.2	3.5	.8	.2	.1	.3	.0		20.2	
	22+	.0	.1	.1	.0	*	.0	.0	*	.0		.3	
	TOT %	3.8	19.3	38.0	15.4	4.1	1.4	.7	1.3	.0	3.7	87.6	
	TOT OBS												2490
	TOT PCT	4.6	22.1	42.4	17.6	4.6	1.9	.9	1.8	.0	4.1	100.0	

JULY

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1855-1975

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.0	.4	6.4	8.9	3.0	1.1	.4	.2	.0	21.5	78.5	470
06&09	1.1	.2	1.4	5.4	12.4	4.3	2.3	1.1	.0	.5	28.6	71.4	444
12&15	.2	.6	1.8	9.0	10.3	5.5	2.1	.4	.4	.0	30.4	69.6	487
18&21	.6	.2	1.2	7.0	12.2	5.0	2.0	.6	.0	.6	29.4	70.6	500
TOT	14	5	23	133	208	85	35	12	3	5	523	1378	1901
PCT	.7	.3	1.2	7.0	10.9	4.5	1.8	.6	.2	.3	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.3	.4	1.5	11.7	85.8	674
06&09	.0	.0	.5	2.1	11.7	85.7	582
12&15	.0	.1	.7	1.3	11.1	86.7	693
18&21	.0	.0	.8	1.5	7.6	90.0	603
TOT	2	3	16	40	270	2221	2552
PCT	.1	.1	.6	1.6	10.6	87.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	1.8	8.3	13.8	77.9	456
06&09	1.2	2.8	9.7	20.1	70.1	432
12&15	.2	2.7	12.2	18.7	69.1	476
18&21	.6	2.1	10.6	19.9	69.6	483
TOT	14	43	189	335	1323	1847
PCT	.8	2.3	10.2	18.1	71.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	.4	.4	.1	.0	20	1.1
85/89	.0	.0	.0	.1	3.2	3.5	1.1	.4	149	8.4
80/84	.0	.0	.0	.1	3.3	34.2	23.6	6.2	1198	67.4
75/79	.0	.0	.0	.0	.1	3.0	11.0	8.2	396	22.3
70/74	.0	.0	.0	.0	.0	.0	.1	.7	14	.8
TOTAL	0	0	0	9	124	732	637	275	1777	100.0
PCT	.0	.0	.0	.5	7.0	41.2	35.8	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.5	.3	.0	.1	.0	.0	.0	.1
.2	1.0	4.4	1.8	.4	.1	*	.2	.0	.3
3.3	15.4	30.7	10.8	2.6	.7	.5	.7	.0	2.8
1.5	4.6	8.4	4.2	1.0	.4	.2	.9	.0	1.1
*	.2	.2	.2	*	.0	.0	.0	.0	.1
5.1	21.3	44.2	17.3	4.1	1.2	.7	1.8	.0	4.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	83	81	77	75	73	80.5	837
06&09	89	83	82	80	76	74	72	79.6	653
12&15	91	88	85	81	77	75	72	81.2	854
18&21	94	90	88	83	78	75	72	82.9	681
TOT	94	88	86	81	77	75	72	81.0	3025

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.4	40.5	41.0	14.1	81	476
06&09	.0	.0	1.6	34.3	44.3	19.8	83	429
12&15	.0	.0	5.4	43.1	32.5	19.0	81	480
18&21	.0	2.0	16.6	48.1	24.7	8.5	77	445
TOT	0	9	128	761	651	281	81	1830

PERIOD: (PRIMARY) 1930-1975
(OVER-ALL) 1855-1975

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
9/10	.0	.0	.0	.1	.0	.2	.1	6	.0	.3
7/8	.0	.0	.0	.0	.4	.6	.0	20	.0	1.0
6	.0	.0	.0	.0	.4	.4	.0	14	.0	.7
5	.0	.0	.0	.1	1.2	.0	.0	25	.0	1.3
4	.0	.0	.0	.9	1.5	.1	.0	41	.0	2.1
3	.0	.0	.0	1.3	1.8	.0	.0	60	.0	3.0
2	.0	.0	.3	3.5	1.5	.0	.0	105	.2	5.1
1	.0	.0	.5	5.5	.8	.0	.0	135	.2	6.6
0	.0	.0	2.5	10.3	.6	.0	.0	267	.2	13.3
-1	.0	.0	3.6	10.2	.2	.0	.0	279	.4	13.7
-2	.0	.1	7.0	9.0	.0	.0	.0	320	.4	15.7
-3	.0	.1	8.0	5.0	.1	.0	.0	260	.3	12.8
-4	.0	.3	6.7	1.6	.1	.0	.0	172	.1	8.5
-5	.0	.2	5.4	1.1	.0	.0	.0	131	.0	6.6
-6	.0	.9	2.6	.3	.0	.0	.0	74	.0	3.7
-7/-8	.1	1.2	1.5	.2	.0	.0	.0	57	.0	2.9
-9/-10	.1	.7	.2	.0	.0	.0	.0	18	.0	.9
-11/-13	.1	.2	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	3		760		168		3		33	1959
		67		968		23		1992		
PCT	.2	3.4	38.2	48.6	8.4	1.2	.2	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	1.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	.3	.0	.0	.0	2.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.0	.1	.0	.0	.0	3.9
1-2	.2	9.0	.3	.0	.0	.0	9.5
3-4	.1	4.4	2.1	.0	.0	.0	6.7
5-6	.1	.8	1.4	.1	.0	.0	2.5
7	.0	.1	.5	.0	.0	.0	.6
8-9	.0	.1	.4	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	17.5	4.9	.1	.0	.0	23.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	5.7	.1	.0	.0	.0	6.8
1-2	.5	13.1	2.4	.0	.0	.0	16.1
3-4	.0	8.4	4.8	.0	.0	.0	13.3
5-6	.0	1.5	2.6	.0	.0	.0	4.1
7	.0	.1	.8	.1	.0	.0	1.1
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	28.8	11.2	.1	.0	.0	41.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.3	.0	.0	.0	3.0
1-2	.3	7.7	1.5	.0	.0	.0	9.5
3-4	.3	1.5	2.3	.0	.0	.0	4.1
5-6	.0	.6	1.3	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	12.3	5.8	.0	.0	.0	19.0

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0002 CAYENNE
6.0N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.4	.3	.6	.0	.0	.0	.0	.9
1-2	.1	1.5	.5	.0	.0	.0	2.0	*	.3	.2	.0	.0	.0	.5
3-4	.1	1.0	.4	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.3	.0	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.7	.8	.1	.0	.0	5.4	.3	.9	.2	.0	.0	.0	1.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.1	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.4	
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.1	.3	.0	.0	.0	.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.2	.0	.0	.0	.0	.4	.3	.4	.3	.0	.0	.0	1.0	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	*0-3*	*4-10*	*11-21*	*22-33*	34-47	48+	PCT	TOT OBS
<1	7.8	13.7	.6	.0	.0	.0	22.0	
1-2	1.7	33.3	5.1	.0	.0	.0	40.1	
3-4	.6	15.5	9.8	.0	.0	.0	25.9	
5-6	.1	3.1	5.3	.3	.0	.0	8.8	
7	.0	.3	1.3	.1	.0	.0	1.7	
8-9	.0	.1	1.3	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								703
TOT PCT	10.2	66.0	23.3	.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	18.7	20.9	5.3	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	820	3
6-7	.3	2.9	9.4	9.6	3.6	.7	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	4
8-9	.1	.7	1.2	2.0	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	5
10-11	.0	1.0	.7	.6	.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
12-13	.0	.0	.3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
>13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	4.8	2.1	2.0	.7	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	2
TOTAL	175	401	543	292	104	37	14	5	5	0	0	0	0	0	0	0	0	0	0	1576	3
PCT	11.1	25.4	34.5	18.5	6.6	2.3	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

AREA 0002 CAYENNE
6.7N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	1.8	1.0	1.8	.0	.0	.0	.0	3.9	2.9	2.1	.0	.0	1.6		.0	89.6
NE	3.0	1.3	1.1	.0	.0	.0	.0	5.4	2.8	2.3	.3	.0	.2		.0	89.4
E	1.5	1.2	.1	.0	.0	.0	.0	2.8	3.0	1.6	.3	.0	.2		.0	92.2
SE	1.3	.8	.6	.0	.0	.0	.0	2.7	1.9	1.2	.1	.0	.6		.2	93.4
S	1.6	1.9	.6	.0	.0	.0	.0	4.2	3.5	2.6	.0	.0	.0		.0	90.4
SW	3.6	2.9	.0	.0	.0	.0	.0	6.5	4.3	2.9	.0	.0	.0		.0	86.3
W	17.3	.0	.0	.0	.0	.0	.0	17.3	2.4	3.1	.0	.0	3.1		.0	74.0
NW	.7	.0	.0	.0	.0	.0	.0	.7	3.4	2.8	.0	.0	.0		.0	93.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.2	.0	.0	.0	.0	1.2	1.2	3.7	.0	.0	1.2		.0	92.7
TOT PCT	1.9	1.1	.5	.0	.0	.0	.0	3.5	2.6	1.8	.2	.0	.4		*	91.5
TOT OBS:	2114															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.4	.4	.0	.0	.0	.0	1.3	1.7	3.7	.4	.0	.6		.2	92.3
06&09	3.4	1.3	.6	.0	.0	.0	.0	5.3	2.5	3.8	.0	.0	.4		.0	88.5
12&15	2.0	1.5	.5	.0	.0	.0	.0	4.1	3.9	.3	.3	.0	.3		.0	91.0
18&21	1.5	1.3	.6	.0	.0	.0	.0	3.2	2.3	.0	.0	.0	.4		.0	94.2
TOT PCT	1.9	1.1	.5	.0	.0	.0	.0	3.5	2.6	1.9	.2	.0	.4		*	91.5
TOT OBS:	2187															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	2.8	.4	.0	.0	.0		4.3	6.1	4.3	5.0	5.2	3.6	5.0	1.1	4.0	2.1
NE	2.1	10.3	3.1	*	.0	.0		15.6	8.0	18.0	22.6	14.6	22.3	14.5	15.3	11.3	18.0
E	3.1	26.1	7.7	.1	.0	.0		37.0	8.3	37.4	32.1	41.9	33.3	36.3	31.3	36.8	36.3
SE	2.2	17.4	6.5	.1	.0	.0		26.2	8.6	25.7	22.6	21.8	26.4	27.0	36.0	28.6	21.1
S	.8	5.4	1.9	.1	.0	.0		8.2	8.4	5.7	9.7	5.6	8.6	8.6	12.5	10.2	13.7
SW	.3	1.0	.3	.1	.0	.0		1.7	9.3	1.9	1.6	1.7	.2	1.8	.3	1.5	4.6
W	.2	.7	.3	.1	.0	.0		1.3	9.2	1.0	.0	1.7	1.6	1.6	.6	1.6	2.1
NW	.4	.9	.1	*	.0	.0		1.5	6.1	1.7	1.3	1.2	.5	1.7	.8	1.8	1.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	4.4	5.0	6.3	3.6	3.4	2.2	4.2	1.0
TOT OBS	424	1882	590	16	0	0	2912		7.9	642	159	525	111	649	180	549	97
TOT PCT	14.6	64.6	20.3	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	1.6	.1	.0	.0		4.3	6.1	4.5	5.0	4.2	3.7
NE	6.8	8.1	.7	*	.0		15.6	8.0	18.9	16.0	14.7	12.3
E	13.3	22.8	.8	*	.0		37.0	8.3	36.3	40.4	35.2	36.8
SE	9.3	16.1	.9	.0	.0		26.2	8.6	25.1	22.6	29.0	27.5
S	3.0	5.0	.2	.0	.0		8.2	8.4	6.5	6.1	9.4	10.7
SW	.8	.6	.2	.1	.0		1.7	9.3	1.8	1.4	1.4	2.0
W	.6	.6	.1	.1	.0		1.3	9.2	.8	1.7	1.4	1.7
NW	1.0	.4	.0	*	.0		1.5	6.1	1.6	1.1	1.5	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.2						4.2	.0	4.5	5.8	3.1	3.7
TOT OBS	1213	1607	86	6	0	2912		7.9	801	636	829	646
TOT PCT	41.7	55.2	3.0	.2	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.5	11.2	63.9	19.9	.5	.0	.0	7.8	100.0	801
06&09	5.8	9.6	63.7	20.3	.6	.0	.0	7.9	100.0	636
12&15	3.1	10.7	65.3	20.4	.5	.0	.0	7.9	100.0	829
18&21	3.7	9.4	65.6	20.6	.6	.0	.0	8.0	100.0	646
TOT	123	301	1882	590	16	0	0	7.9		2912
PCT	4.2	10.3	64.6	20.3	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.5	1.6	.5		4.3
NE	4.2	3.4	4.7	1.6		4.2
E	13.3	11.6	12.1	2.5		3.8
SE	7.4	8.4	7.7	1.6		3.9
S	1.7	2.0	2.8	.9		4.4
SW	.3	.4	.5	.4		4.8
W	.2	.3	.5	.5		5.5
NW	.3	.5	.4	.5		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.0	1.2	.5		3.6
TOT OBS	539	516	556	159	1770	4.0
TOT PCT	30.5	29.2	31.4	9.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.3	.5	.2	.2	.1	.1	.0	3.3	
NE	.1	.0	.1	.7	1.3	.6	.3	.1	.0	.0	10.7	
E	.1	.1	.4	1.7	3.4	1.4	.2	.1	.3	.1	31.8	
SE	.0	.1	.1	1.0	2.6	.6	.5	.1	.1	.1	20.0	
S	.0	.0	.3	.3	.8	.2	.2	.0	.1	.0	5.5	
SW	.0	.0	*	.1	.3	.1	.1	.0	.0	.0	1.1	
W	.1	*	*	.0	.5	.2	*	.1	.0	.0	.7	
NW	.0	*	.0	.2	.2	.1	.1	*	.1	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.2	.5	.1	.1	.0	.0	.1	3.4	
TOT OBS	4	4	21	81	176	60	31	7	11	3	1372	1770
TOT PCT	.2	.2	1.2	4.6	9.9	3.4	1.8	.4	.6	.2	77.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.7	2.8	2.8	2.9	2.9	2.9	2.9	2.9
= OR >2000	5.6	6.1	6.2	6.2	6.2	6.2	6.2	6.2
= OR >1000	14.0	15.9	16.1	16.2	16.2	16.2	16.2	16.2
= OR >600	17.5	20.3	20.6	20.7	20.8	20.8	20.8	20.8
= OR >300	18.5	21.5	21.8	21.9	22.0	22.0	22.0	22.0
= OR >150	18.7	21.7	22.0	22.1	22.2	22.2	22.2	22.2
= OR > 0	18.7	21.8	22.2	22.4	22.4	22.4	22.4	22.4
TOTAL	341	398	406	408	409	409	409	409

TOTAL NUMBER OF OBS: 1825

PCT FREQ NH <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.0	16.3	23.2	19.9	10.3	6.5	5.5	5.3	4.9	.2	1892

PERIOD: (PRIMARY) 1930-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.1	.1	.1	*	*	*	*	.0	.0	.4	
2<5	NO PCP	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.2	.1	*	*	*	*	.0	.0	.8	
	PCP	.1	.2	.3	.3	.1	.0	.1	.0	.0	*	1.2	
5<10	NO PCP	.3	1.1	2.6	2.1	.8	.3	.2	.3	.0	.1	7.9	
	TOT %	.4	1.3	2.9	2.4	.9	.3	.3	.3	.0	.1	9.0	
	PCP	*	.3	.7	.3	.2	.1	.1	.0	.0	.0	1.7	
10+	NO PCP	4.1	11.7	35.2	23.8	6.3	1.2	1.0	1.4	.0	3.7	88.3	
	TOT %	4.1	12.0	35.8	24.0	6.4	1.3	1.1	1.4	.0	3.7	90.0	
	TOT OBS												2112
	TOT PCT	4.5	13.7	39.0	26.6	7.4	1.6	1.5	1.7	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	4-10	*	.1	.1	.1	*	.0	*	*	.0		.5	
	11-21	.0	.1	.0	.1	.0	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.3	.2	.2	*	*	*	*	.0	.0	.8	
	0-3	.1	.1	.1	.0	.1	.0	.0	.2	.0	.2	.7	
5<10	4-10	.3	.9	2.0	1.7	.6	.2	.2	.1	.0		6.1	
	11-21	.0	.3	.6	.5	.1	.0	*	.0	.0		1.6	
	22+	.0	.0	.0	.0	*	.1	.0	.0	.0		.1	
	TOT %	.4	1.3	2.7	2.2	.8	.3	.3	.3	.0	.2	8.5	
	0-3	1.0	1.9	3.0	2.0	.6	.2	.2	.2	.0	4.0	13.1	
10+	4-10	2.5	8.5	25.7	15.5	4.0	.7	.4	.9	.0		58.2	
	11-21	.4	2.2	7.5	6.1	1.7	.2	.4	.1	.0		18.7	
	22+	.0	*	.1	.1	*	.1	.1	*	.0		.5	
	TOT %	3.9	12.6	36.2	23.8	6.3	1.3	1.0	1.3	.0	4.0	90.4	
	TOT OBS												2411
	TOT PCT	4.4	14.2	39.2	26.3	7.2	1.6	1.4	1.6	.0	4.1	100.0	

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PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	.5	5.5	7.3	2.7	1.1	.0	.7	.2	18.4	81.6	440
06&09	.4	.0	1.3	5.2	10.4	3.7	1.5	.9	.2	.2	23.8	76.2	463
12&15	.2	.2	1.7	5.0	10.6	2.5	2.3	.2	.8	.2	23.8	76.2	479
18&21	.0	.4	1.2	2.4	10.1	4.0	1.8	.4	.6	.0	21.0	79.0	495
TOT	4	4	22	84	181	61	32	7	11	3	409	1468	1877
PCT	.2	.2	1.2	4.5	9.6	3.2	1.7	.4	.6	.2	21.8	78.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.6	.2	1.1	10.4	87.8	646
06&09	.2	.2	.2	1.2	9.1	89.2	573
12&15	.0	.0	.1	.4	8.5	90.9	679
18&21	.0	.0	.0	.5	6.7	92.8	586
TOT	1	5	3	20	216	2239	2484
PCT	*	.2	.1	.8	8.7	90.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	.9	6.6	12.5	80.9	425
06&09	.4	2.0	7.8	16.7	75.5	449
12&15	.2	2.1	7.5	16.8	75.7	469
18&21	.0	1.7	4.1	17.4	78.4	482
TOT	4	31	118	291	1416	1825
PCT	.2	1.7	6.5	15.9	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.3	.9	.5	.1	.1	33	1.9
85/89	.0	.0	.0	.2	4.5	5.1	1.1	.6	202	11.5
80/84	.0	.0	.0	.2	4.8	35.8	26.4	4.0	1251	71.2
75/79	.0	.0	.0	.0	.1	2.7	8.7	3.4	261	14.9
70/74	.0	.0	.0	.0	.0	.0	.0	.5	8	.5
TOTAL	0	0	0	15	180	775	637	149	1756	100.0
PCT	.0	.0	.0	.9	10.3	44.1	36.3	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.0	.0	.0	.0	.0	.0	.0
*	.1	.9	.6	.1	.0	.0	.1	.0	.0
.4	1.3	4.7	3.4	.8	.1	.2	.3	.0	.3
2.8	10.4	29.1	18.3	5.0	1.0	.9	.6	.0	3.0
1.0	2.1	4.3	3.5	1.4	.9	.5	.5	.0	.7
.0	.1	.1	.1	.1	.0	.1	.0	.0	.0
4.3	14.1	39.2	25.9	7.3	2.0	1.7	1.5	.0	4.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	86	84	81	78	76	75	81.0	804
06&09	88	84	83	80	77	76	74	80.2	654
12&15	93	89	86	82	78	75	73	81.9	833
18&21	95	94	90	83	79	76	75	83.8	654
TOT	95	90	86	81	78	76	73	81.7	2945

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	5.8	43.0	40.8	10.0	80	451
06&09	.0	.2	2.5	38.2	49.7	9.4	82	435
12&15	.0	.0	5.2	47.3	37.2	10.3	80	484
18&21	.0	2.7	27.5	48.1	17.4	4.3	74	447
TOT	0	15	185	804	658	155	79	1817

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.1	.4	10	.0	.5
9/10	.0	.0	.1	.3	.3	.1	14	.0	.7
7/8	.0	.0	.1	.9	.9	.0	36	.0	1.8
6	.0	.0	.0	.9	.5	.0	28	.0	1.4
5	.0	.0	.4	1.1	.6	.0	40	.0	2.0
4	.0	.0	.8	1.7	.1	.0	49	.0	2.5
3	.0	.1	1.3	2.1	.0	.0	67	.0	3.4
2	.0	.3	3.4	1.7	.0	.0	107	.0	5.4
1	.0	.3	6.0	1.2	.0	.0	150	.0	7.5
0	.1	1.8	10.4	.7	.1	.0	257	.1	12.8
-1	.0	2.6	12.4	.3	.0	.0	305	.2	15.1
-2	.1	6.0	9.7	.0	.0	.0	314	.0	15.7
-3	.1	6.5	6.0	.1	.0	.0	253	.0	12.7
-4	.1	6.2	2.3	.0	.0	.0	171	.0	8.6
-5	.2	3.4	1.2	.0	.0	.0	94	.0	4.7
-6	.2	1.5	.3	.0	.0	.0	39	.0	2.0
-7/-8	.8	1.7	.2	.0	.0	.0	53	.0	2.7
-9/-10	.4	.1	.0	.0	.0	.0	9	.0	.5
TOTAL	34	605	1086	215	48	9	1997	4	1993
PCT	1.7	30.3	54.4	10.8	2.4	.5	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.3
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.2	.3	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.2	.1	.0	.0	.0	3.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.4	.0	.0	.0	2.2
1-2	1.0	6.3	.7	.0	.0	.0	8.0
3-4	.2	3.7	1.9	.0	.0	.0	5.9
5-6	.0	.6	1.1	*	.0	.0	1.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	12.2	4.4	*	.0	.0	18.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.9	.4	.0	.0	.0	5.0
1-2	.9	14.4	2.9	.0	.0	.0	18.2
3-4	.5	9.5	4.2	.0	.0	.0	14.2
5-6	.0	1.2	1.7	.1	.0	.0	3.0
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	29.2	9.1	.1	.0	.0	40.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	*	.0	.0	.0	1.7
1-2	1.1	6.2	2.2	.0	.0	.0	9.5
3-4	.2	4.5	3.8	.0	.0	.0	8.5
5-6	.0	.5	1.8	.0	.0	.0	2.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	12.4	8.3	.0	.0	.0	22.3

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0002 CAYENNE
6.7N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.2	.0	.0	.0	1.0
1-2	.1	2.2	.7	.0	.0	.0	3.1
3-4	.0	.9	1.0	.0	.0	.0	1.8
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	2.2	.1	.0	.0	6.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.3	.5	.0	.0	.0	.0	.8
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.9	.3	*	.0	.0	1.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.0	.0	.0	.0	.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.0	.0	.0	.0	.0	.2	
1-2	.3	.3	.0	.0	.0	.0	.6	
3-4	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	.3	.1	.0	.0	.0	.9	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	8.3	1.0	.0	.0	.0	18.9	
1-2	4.1	31.3	6.4	.0	.0	.0	41.8	
3-4	1.2	18.5	10.9	.0	.0	.0	30.7	
5-6	.0	2.2	4.6	.1	.0	.0	6.9	
7	.0	.3	1.0	.0	.0	.0	1.2	
8-9	.0	.1	.0	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								723
TOT PCT	15.1	60.9	23.8	.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	19.7	23.0	4.7	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	823	3
6-7	.3	3.5	7.8	6.7	2.6	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	4
8-9	.0	.9	2.0	3.2	1.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	5
10-11	.0	.6	.3	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
12-13	.0	.0	.7	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	5.7	2.3	2.0	1.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	176	2
TOTAL	176	410	543	258	79	40	9	2	2	0	0	0	0	0	0	0	0	0	0	1519	3
PCT	11.6	27.0	35.7	17.0	5.2	2.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1929-1974
(OVER-ALL) 1854-1974

AREA 0002 CAYENNE
6.5N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	2.9	.0	.0	.0	.0	.0	2.9	2.1	.5	.0	.0	.0		.0	94.4
NE	.4	2.3	.0	.0	.0	.0	.0	2.6	2.0	.6	.0	.0	.2		.0	94.6
E	.6	1.1	.2	.0	.0	.0	.0	1.9	1.9	.6	.4	.0	.1		.0	95.2
SE	1.5	1.3	.3	.0	.0	.0	.0	3.0	2.0	.6	2.1	.0	.0		.2	92.2
S	1.1	1.1	.0	.0	.0	.0	.0	2.2	.0	.0	4.3	.0	.0		.0	93.5
SW	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	9.1	4.5	.0	.0		.0	77.3
W	.0	.0	.0	.0	.0	.0	.0	.0	10.7	.0	.0	.0	.0		.0	89.3
NW	13.6	.0	.0	.0	.0	.0	.0	13.6	1.7	3.4	.0	.0	.0		.0	81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	2.8	.0	.0	.0	1.4		.0	93.0
TOT PCT	1.0	1.3	.2	.0	.0	.0	.0	2.5	1.9	.6	1.0	.0	.1		*	93.9
TOT OBS:	2193															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	.2	.2	.0	.0	.0	.0	1.6	2.2	1.1	1.3	.0	.4		.0	93.6
06&09	1.8	1.6	.2	.0	.0	.0	.0	3.3	2.0	1.6	.6	.0	.2		.2	92.3
12&15	.3	1.9	.0	.0	.0	.0	.0	2.2	1.9	.0	1.3	.0	.0		.0	94.6
18&21	.7	1.9	.3	.0	.0	.0	.0	3.0	1.6	.0	.5	.0	.0		.0	94.9
TOT PCT	1.0	1.4	.2	.0	.0	.0	.0	2.5	1.9	.6	.9	.0	.1		*	93.9
TOT OBS:	2261															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.2	.5	.0	*	.0		3.4	6.8	4.1	1.9	4.3	1.6	3.6	4.0	2.4	1.4
NE	1.0	9.7	2.5	*	.0	.0		13.2	8.0	13.9	16.7	15.1	18.4	12.6	10.3	10.3	15.7
E	3.4	30.8	10.7	.1	.0	.0		45.0	8.6	46.9	40.2	50.3	48.2	43.2	40.1	44.2	37.7
SE	1.7	17.4	7.8	.2	.0	.0		27.1	9.2	23.7	24.8	20.6	20.7	31.0	33.9	30.9	29.9
S	.7	3.9	1.5	.0	*	.0		6.0	8.4	4.9	9.3	3.1	7.4	6.0	8.2	6.9	10.6
SW	.3	.7	*	.0	.0	.0		1.0	5.2	.7	1.9	.8	2.5	.5	2.3	.7	1.9
W	*	.3	.1	.0	.0	.0		.4	7.2	.5	.6	.2	.4	.3	.0	.5	.5
NW	.1	.4	*	.0	*	.0		.6	6.0	.5	.6	.8	.0	.7	.3	.4	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.8	3.8	4.9	.8	2.1	.9	3.8	1.9
TOT OBS	339	1967	692	12	2	0	3012		8.3	647	156	515	122	659	219	586	108
TOT PCT	11.3	65.3	23.0	.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	1.4	*	*	.0		3.4	6.8	3.7	3.8	3.7	2.3
NE	5.8	7.1	.3	*	.0		13.2	8.0	14.4	15.7	12.0	11.1
E	15.3	28.4	1.3	.1	.0		45.0	8.6	45.6	49.9	42.4	43.2
SE	8.7	16.6	1.7	*	.0		27.1	9.2	23.9	20.6	31.7	30.7
S	2.4	3.4	.2	*	.0		6.0	8.4	5.8	3.9	6.5	7.5
SW	.7	.2	.0	.0	.0		1.0	5.2	.9	1.1	.9	.9
W	.2	.2	.0	.0	.0		.4	7.2	.5	.2	.3	.5
NW	.4	.1	.0	*	.0		.6	6.0	.5	.7	.6	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	4.6	4.1	1.8	3.5
TOT OBS	1172	1728	107	5	0	3012		8.3	803	637	878	694
TOT PCT	38.9	57.4	3.6	.2	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1929-1974
(OVER-ALL) 1854-1974

AREA 0002 CAYENNE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.6	6.8	64.1	23.9	.4	.1	.0	8.2	100.0	803
06&09	4.1	5.8	65.1	24.3	.6	.0	.0	8.5	100.0	637
12&15	1.8	9.0	67.4	21.3	.3	.1	.0	8.2	100.0	878
18&21	3.5	9.4	64.1	22.8	.3	.0	.0	8.2	100.0	694
TOT	103	236	1967	692	12	2	0	8.3		3012
PCT	3.4	7.8	65.3	23.0	.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.1	.9	.4		3.8
NE	5.8	2.9	3.0	.9		3.3
E	19.9	15.2	10.8	2.5		3.3
SE	9.6	7.6	7.4	1.1		3.5
S	1.4	.8	1.7	.4		4.3
SW	*	.1	.3	.1		6.0
W	.1	.1	.1	.0		3.9
NW	.1	*	.4	*		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	.7	.7	.5		3.3
TOT OBS	692	491	439	102	1724	3.4
TOT PCT	40.1	28.5	25.5	5.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	*	.3	.2	.0	*	.1	*	3.1	
NE	.1	.1	.1	.6	.7	.3	.2	*	.0	*	10.7	
E	.3	.2	.3	1.2	2.1	.8	.5	.2	*	.0	42.7	
SE	*	*	.3	1.1	1.8	.7	.1	.0	.1	.0	21.7	
S	.0	.0	*	.1	.4	.2	.1	.1	.0	.0	3.4	
SW	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.1	
W	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.3	
NW	.0	.0	*	.1	.1	.1	.0	*	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.2	.0	.1	.1	.0	.0	3.1	
TOT OBS	7	5	16	59	98	38	16	8	3	1	1473	1724
TOT PCT	.4	.3	.9	3.4	5.7	2.2	.9	.5	.2	.1	85.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.7	.7	.7	.7	.7	.7
* OR >3500	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >2000	3.1	3.6	3.7	3.7	3.7	3.7	3.7	3.7
* OR >1000	8.1	9.1	9.3	9.3	9.3	9.3	9.3	9.3
* OR >600	10.6	12.2	12.6	12.6	12.6	12.6	12.6	12.6
* OR >300	11.1	13.0	13.5	13.5	13.5	13.5	13.5	13.5
* OR >150	11.4	13.3	13.7	13.7	13.7	13.7	13.7	13.7
* OR > 0	11.5	13.6	14.1	14.1	14.1	14.1	14.1	14.1
TOTAL	203	239	248	248	248	248	248	248

TOTAL NUMBER OF OBS: 1761

PCT FREQ NH <5/8: 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.3	19.3	26.6	19.1	9.8	4.6	4.1	3.3	2.7	.1	1830

PERIOD: (PRIMARY) 1929-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.6	.2	*	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.2	.6	.2	*	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	*	.1	.1	.2	.0	.0	.0	*	.0	.0	.5	
	NO PCP	*	.1	.1	.1	.0	*	.0	*	.0	.0	.4	
	TOT %	.1	.1	.2	.4	.0	*	.0	.1	.0	.0	.9	
5<10	PCP	*	.0	.4	.2	.0	*	.0	*	.0	.0	.7	
	NO PCP	.7	.8	2.4	2.2	.4	*	*	*	.0	.1	6.7	
	TOT %	.8	.8	2.8	2.3	.4	.1	*	.1	.0	.1	7.4	
10+	PCP	*	.2	.4	.4	.1	.0	.0	.0	.0	.1	1.3	
	NO PCP	3.4	11.3	43.7	23.1	3.6	.3	.3	.5	.0	3.0	89.3	
	TOT %	3.5	11.5	44.2	23.5	3.6	.3	.3	.5	.0	3.1	90.6	
	TOT OBS												2179
	TOT PCT	4.3	12.5	47.5	26.7	4.2	.5	.3	.7	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
	4-10	.0	.0	.1	.2	.1	*	.0	.0	.0		.4	
	11-21	.0	.0	.1	.3	.1	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.5	.2	*	.0	.0	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	*	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.0	.1	.1	.2	.0	*	.0	*	.0		.5	
	11-21	*	*	*	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.1	.2	.3	.0	*	.0	.1	.0	.0	.8	
5<10	0-3	.1	.1	.2	.1	*	.0	.0	.0	.0	.2	.7	
	4-10	.4	.6	2.0	1.4	.2	.1	.0	.1	.0		4.7	
	11-21	.1	.1	.5	.7	.1	.0	*	*	.0		1.5	
	22+	*	*	.1	.0	.0	.0	.0	*	.0		.2	
	TOT %	.7	.8	2.8	2.2	.4	.1	*	.1	.0	.2	7.1	
10+	0-3	.7	.9	3.2	1.4	.3	.1	*	.1	.0	3.2	9.9	
	4-10	2.1	8.9	29.7	16.3	3.0	.3	.2	.4	.0		60.9	
	11-21	.3	2.0	10.1	6.5	1.0	.1	*	*	.0		20.0	
	22+	.0	*	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	3.2	11.9	43.0	24.3	4.3	.4	.3	.5	.0	3.2	91.0	
	TOT OBS												2486
	TOT PCT	3.9	12.8	46.3	27.3	4.8	.6	.3	.6	.0	3.4	100.0	

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PERIOD: (PRIMARY) 1929-1974
(OVER-ALL) 1854-1974

AREA 0002 CAYENNE
6.5N 52.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.5	.7	2.4	5.0	1.4	1.2	.2	.7	.2	12.7	87.3	424
06&09	.7	.2	.7	3.2	5.7	1.5	.7	.5	.0	.0	13.3	86.7	407
12&15	.4	.4	.9	2.6	6.7	3.4	.6	.4	.0	.0	15.5	84.5	466
18&21	.0	.0	1.2	4.7	4.7	2.1	1.0	.6	.2	.0	14.3	85.7	516
TOT	7	5	16	59	99	39	16	8	4	1	254	1559	1813
PCT	.4	.3	.9	3.3	5.5	2.2	.9	.4	.2	.1	14.0	86.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	1.2	.2	.6	9.8	88.0	650
06&09	.0	.5	.2	1.2	7.5	90.6	563
12&15	.0	1.1	.0	.7	7.8	90.4	718
18&21	.0	.5	.0	1.0	4.2	94.4	624
TOT	1	22	2	22	188	2320	2555
PCT	*	.9	.1	.9	7.4	90.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	1.7	4.1	8.8	87.1	411
06&09	.5	1.5	5.3	8.5	86.2	399
12&15	.4	1.6	4.4	11.1	84.4	450
18&21	.0	1.2	6.4	8.2	85.4	501
TOT	6	26	90	161	1510	1761
PCT	.3	1.5	5.1	9.1	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.1	.0	.0	3	.2
90/94	.0	.0	.0	.4	1.5	.3	.2	.1	43	2.5
85/89	.0	.0	.0	.1	3.2	7.2	1.9	.7	229	13.1
80/84	.0	.0	.0	.1	2.9	32.5	30.6	7.5	1289	73.6
75/79	.0	.0	.0	.0	.1	1.4	6.0	3.0	184	10.5
70/74	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	0	12	134	727	678	200	1751	100.0
PCT	.0	.0	.0	.7	7.7	41.5	38.7	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.0	.0	.0	.0	.0	.0	.1
.1	.3	1.0	.9	.1	.0	.0	.0	.0	.0
.3	1.4	6.7	3.6	.6	.1	.1	*	.0	.5
2.8	9.7	35.6	19.1	3.0	.3	.2	.3	.0	2.6
.3	1.3	5.8	2.1	.2	.1	.1	.2	.0	.3
.0	.0	.0	.1	.0	.1	.0	.1	.0	.0
3.5	12.7	49.2	25.8	3.8	.5	.4	.6	.0	3.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	81	79	76	73	81.2	801
06&09	85	84	82	80	78	76	74	80.3	646
12&15	95	90	86	82	79	77	71	82.5	878
18&21	95	93	90	84	80	78	75	84.1	707
TOT	95	90	87	82	79	77	71	82.0	3032

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.5	39.3	46.0	12.0	82	443
06&09	.0	.0	.7	30.8	52.5	16.0	83	413
12&15	.0	.4	5.6	45.9	35.7	12.3	80	479
18&21	.0	1.9	21.5	49.0	22.6	4.9	75	465
TOT	0	12	141	749	697	201	80	1800

PERIOD: (PRIMARY) 1929-1974
(OVER-ALL) 1854-1974

AREA 0002 CAYENNE
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.1	.2	.1	9	.0	.4
9/10	.0	.0	.0	.0	.2	.6	.1	20	.0	1.0
7/8	.0	.0	.0	.2	.6	1.0	*	37	.0	1.8
6	.0	.0	.0	*	1.2	.6	.0	39	.0	1.9
5	.0	.0	.1	.5	1.3	.2	.0	45	.0	2.1
4	.0	.0	*	1.1	1.5	.2	.0	62	.0	3.0
3	.0	.0	.1	1.5	2.1	*	.0	81	.0	3.9
2	.0	.0	.1	5.6	2.7	.0	.0	176	.0	8.4
1	.0	.0	.7	7.6	1.4	.0	.0	203	.1	9.6
0	.0	*	2.6	13.2	1.0	.0	.0	353	.3	16.5
-1	.0	.0	3.5	10.8	.2	.0	.0	304	.2	14.2
-2	.0	.0	5.0	8.8	.1	.0	.0	290	.2	13.6
-3	.0	.0	4.4	4.9	*	.0	.0	197	.0	9.4
-4	.0	.0	4.7	2.7	*	.0	.0	156	.0	7.4
-5	.0	.1	2.2	.7	.0	.0	.0	62	.0	3.0
-6	.0	.2	1.0	.3	.0	.0	.0	31	.0	1.5
-7/-8	.0	.4	.9	.1	.0	.0	.0	29	.0	1.4
-9/-10	*	.1	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	1	18	532	1217	263	60	9	2100	17	2083
PCT	*	.9	25.3	58.0	12.5	2.9	.4	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.7
1-2	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.6	.0	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.2
1-2	.3	6.5	.5	.0	.0	.0	7.3
3-4	.0	2.1	1.2	.0	.0	.0	3.3
5-6	.0	.2	.6	.0	.0	.0	.9
7	.0	.0	.1	*	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.7	2.4	*	.0	.0	12.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	4.0	.1	.0	.0	.0	5.4
1-2	.8	18.6	3.1	.0	.0	.0	22.5
3-4	.3	9.2	6.1	.0	.0	.0	15.6
5-6	.1	1.8	2.3	.0	.0	.0	4.2
7	.0	.0	.7	.1	.0	.0	.8
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	33.5	12.8	.3	.0	.0	49.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.0	.1	.0	.0	.0	3.7
1-2	.2	8.6	2.2	.0	.0	.0	11.0
3-4	.4	5.0	4.8	.1	.0	.0	10.4
5-6	.0	.6	1.9	.0	.0	.0	2.5
7	.0	*	.9	.0	.0	.0	.9
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	17.2	10.1	.1	.0	.0	28.6

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0002 CAYENNE 6.5N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
1-2	.1	1.7	.3	.0	.0	.0	2.1	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.5	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	.6	.0	.0	.0	3.2	.1	.6	.0	.0	.0	.0	.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.1	.3	.0	.0	.0	.4	.1	.1	*	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.3	.0	.0	.0	.4	.1	.4	.1	.0	.0	.0	.6	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	8.3	.4	.0	.0	.0	13.9	
1-2	1.7	36.6	6.5	.0	.0	.0	44.8	
3-4	.9	17.2	12.5	.1	.0	.0	30.7	
5-6	.1	2.7	5.0	.0	.0	.0	7.9	
7	.0	.1	1.7	.1	.0	.0	2.0	
8-9	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	65.0	26.7	.4	.0	.0	100.0	697

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	23.7	22.4	5.4	.7	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	861	3
6-7	.2	2.6	9.7	6.4	2.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319	4
8-9	.0	.1	2.3	2.8	1.3	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
10-11	.0	.5	.6	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
12-13	.0	.0	.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	4.5	1.4	1.7	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	2
TOTAL	155	420	555	253	68	17	7	2	2	0	0	0	0	0	0	0	0	0	0	1479	3
PCT	10.5	28.4	37.5	17.1	4.6	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1862-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.4	.7	.0	.0	1.4		92.9
NE	.6	1.0	.3	.0	.0	.0	.0	1.8	3.3	1.7	1.6	.0	.5	.0		91.2
E	.7	1.5	.5	.0	.0	.0	.0	2.7	2.2	1.0	.7	.0	.1	.0		93.4
SE	.4	2.3	.0	.0	.0	.0	.0	2.6	1.1	1.2	1.2	.0	.2	.0		93.6
S	.0	8.0	.0	.0	.0	.0	.0	8.0	2.1	.0	.0	.0	.0	.0		89.8
SW	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0		96.0
W	6.8	15.9	.0	.0	.0	.0	.0	22.7	.0	.0	.0	.0	.0	.0		77.3
NW	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0		98.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0		96.6
TOT PCT	.6	1.6	.3	.0	.0	.0	.0	2.5	2.2	1.2	.9	.0	.2	*		92.9
TOT OBS:	2209															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	.3	.9	.2	.0	.0	.0	.0	1.4	1.2	2.3	1.4	.0	.3	.0		93.6
06&09	1.1	.8	.6	.0	.0	.0	.0	2.5	2.5	2.9	.8	.0	.0	.2		91.2
12&15	.7	2.3	.3	.0	.0	.0	.0	3.3	2.6	.0	.8	.0	.2	.0		93.2
18&21	.7	2.3	.2	.0	.0	.0	.0	3.2	2.5	.0	.7	.0	.2	.0		93.4
TOT PCT	.7	1.6	.3	.0	.0	.0	.0	2.6	2.2	1.2	.9	.0	.2	*		92.9
TOT OBS:	2272															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	1.7	.3	.0	.0	.0		2.6	6.0	3.7	1.7	3.9	.0	2.2	1.6	2.1	1.8
NE	2.0	14.9	4.0	*	.0	.0		20.9	8.1	21.8	26.5	21.5	25.6	22.1	17.3	17.2	18.2
E	2.8	31.2	13.1	.2	.0	.0		47.3	9.0	49.3	37.4	49.8	45.7	49.9	41.9	46.6	38.6
SE	1.9	13.4	5.4	.2	.0	.0		20.9	8.8	18.1	26.0	16.2	19.7	20.3	26.7	24.2	29.1
S	.9	1.8	.8	*	.0	.0		3.5	7.2	3.1	3.2	2.2	2.8	2.5	8.4	4.3	6.4
SW	.2	.5	*	.0	.0	.0		.8	5.5	.6	1.5	.2	2.4	.6	1.4	.7	2.3
W	.1	.3	.0	.0	.0	.0		.4	5.5	.0	.0	.4	.0	.5	.2	1.3	.0
NW	.3	.2	.1	.0	.0	.0		.6	4.5	.7	.3	1.3	.0	.3	.5	.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	2.5	3.5	4.6	3.9	1.6	1.9	3.1	3.6
TOT OBS	366	1959	723	13	0	0	3061		8.3	667	172	525	127	673	208	579	110
TOT PCT	12.0	64.0	23.6	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	.8	*	.0	.0		2.6	6.0	3.3	3.1	2.0	2.0
NE	8.2	12.1	.6	.0	.0		20.9	8.1	22.7	22.3	21.0	17.4
E	15.3	29.8	2.2	*	.0		47.3	9.0	46.9	49.0	48.0	45.4
SE	7.2	12.5	1.2	*	.0		20.9	8.8	19.8	16.9	21.8	25.0
S	1.9	1.5	.1	.0	.0		3.5	7.2	3.2	2.3	3.9	4.6
SW	.6	.2	.0	.0	.0		.8	5.5	.7	.6	.8	1.0
W	.3	.1	.0	.0	.0		.4	5.5	.0	.3	.4	1.1
NW	.5	.1	.0	.0	.0		.6	4.5	.7	1.0	.4	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.7	4.4	1.7	3.2
TOT OBS	1184	1748	127	2	0	3061		8.3	839	652	881	689
TOT PCT	38.7	57.1	4.1	.1	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1862-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.7	10.0	64.1	22.9	.2	.0	.0	8.1	100.0	839
06&09	4.4	7.1	68.1	20.2	.2	.0	.0	7.9	100.0	652
12&15	1.7	9.3	63.0	25.7	.3	.0	.0	8.5	100.0	881
18&21	3.2	9.4	61.2	25.1	1.0	.0	.0	8.5	100.0	689
TOT	89	277	1959	723	13	0	0	8.3		3061
PCT	2.9	9.0	64.0	23.6	.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.1	.6	.2		3.3
NE	8.5	6.6	4.5	1.2		3.4
E	20.3	16.8	12.1	2.7		3.4
SE	6.6	5.6	4.4	.9		3.4
S	.6	.5	.7	.3		4.3
SW	.0	.0	.1	.1		7.4
W	.1	.1	.3	.1		5.7
NW	.2	.1	.3	*		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.8	.7	.3	.2		2.6
TOT OBS	694	552	410	100	1756	3.4
TOT PCT	39.5	31.4	23.3	5.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	3.0	
NE	.0	.0	.3	.6	1.0	.8	.1	.0	.1	.0	18.0	
E	.2	.1	.4	2.3	2.7	1.5	.5	.2	.0	.1	44.0	
SE	*	.0	.1	.8	1.1	.6	.1	.0	.0	.1	14.7	
S	.0	.0	.1	.2	.1	.1	*	.0	.0	.0	1.5	
SW	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	*	
W	.0	.0	.0	.1	*	.1	*	.0	.0	.0	.4	
NW	.0	.0	.0	.1	*	.1	*	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	2.8	
TOT OBS	3	1	16	72	92	57	15	3	1	2	1494	1756
TOT PCT	.2	.1	.9	4.1	5.2	3.2	.9	.2	.1	.1	85.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.3	.3	.3	.3	.3	.3	.3	.3
* OR >3500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	3.8	4.3	4.3	4.3	4.3	4.4	4.4	4.4
* OR >1000	8.7	9.5	9.5	9.5	9.5	9.6	9.6	9.6
* OR >600	11.7	13.2	13.4	13.5	13.5	13.6	13.6	13.6
* OR >300	12.4	14.1	14.3	14.5	14.5	14.5	14.5	14.5
* OR >150	12.4	14.1	14.4	14.5	14.5	14.6	14.6	14.6
* OR > 0	12.4	14.2	14.5	14.6	14.7	14.7	14.7	14.7
TOTAL	222	253	258	261	262	263	263	263

TOTAL NUMBER OF OBS: 1784

PCT FREQ NH <5/8: 85.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.6	18.6	29.4	20.0	9.3	5.4	4.3	2.0	3.1	.2	1858

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1862-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	.1	.0	.0	*	*	.0	.0	.0	.2	
2<5	NO PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.2	.1	.0	*	*	.0	.0	.0	.5	
	PCP	.0	.2	.4	.2	*	.0	*	.0	.0	.0	.9	
5<10	NO PCP	.3	1.6	3.3	2.6	.2	.1	.0	.1	.0	.1	8.2	
	TOT %	.3	1.8	3.7	2.7	.2	.1	*	.1	.0	.1	9.1	
	PCP	.0	.1	.6	.2	.1	.0	*	*	.0	.0	1.1	
10+	NO PCP	2.9	18.0	46.5	15.6	1.8	.2	.4	.6	.0	2.6	88.6	
	TOT %	2.9	18.1	47.2	15.9	1.9	.2	.4	.6	.0	2.6	89.7	
	TOT OBS												2196
	TOT PCT	3.2	20.1	51.4	19.0	2.1	.3	.5	.8	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.1	*	.1	*	*	*	.0	.0		.4	
	11-21	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	*	*	*	.0	.0	.0	.5	
	0-3	.1	.4	.3	.3	.1	*	.0	*	.0	.1	1.4	
5<10	4-10	.1	1.0	1.9	1.5	.1	*	*	*	.0		4.7	
	11-21	*	.2	1.1	.6	.1	.0	.0	.0	.0		2.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.3	1.6	3.4	2.5	.2	.1	*	.1	.0	.1	8.2	
	0-3	.6	1.7	2.4	1.4	.5	*	.2	.4	.0	2.7	9.9	
10+	4-10	1.8	13.4	31.2	11.3	1.2	.3	.2	.2	.0		59.7	
	11-21	.3	3.1	12.4	4.3	.4	*	.0	*	.0		20.6	
	22+	.0	*	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	2.7	18.3	46.2	17.1	2.1	.4	.4	.6	.0	2.7	90.4	
	TOT OBS												2485
	TOT PCT	3.0	20.2	50.1	20.1	2.3	.4	.5	.7	.0	2.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1862-1974

AREA 0002 CAYENNE
6.0N 52.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.0	1.2	3.5	6.5	2.5	.2	.0	.2	.2	14.5	85.5	433
06&09	.5	.0	.5	3.6	3.1	1.9	.7	.0	.0	.0	10.2	89.8	421
12&15	.0	.0	1.2	4.1	4.1	3.3	1.2	.0	.0	.2	14.3	85.7	482
18&21	.0	.2	.8	4.3	6.3	4.5	1.0	.6	.0	.0	17.7	82.3	508
TOT	3	1	17	72	93	58	15	3	1	2	265	1579	1844
PCT	.2	.1	.9	3.9	5.0	3.1	.8	.2	.1	.1	14.4	85.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.9	.6	.9	12.0	85.6	667
06&09	.0	.5	.5	.3	6.8	91.8	572
12&15	.1	.3	.1	.3	10.2	88.9	703
18&21	.0	.5	.0	.5	5.4	93.6	606
TOT	1	14	8	13	224	2288	2548
PCT	*	.5	.3	.5	8.8	89.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.4	5.2	9.6	85.2	425
06&09	.5	1.0	5.0	5.7	89.4	404
12&15	.0	1.5	5.6	9.1	85.2	463
18&21	.0	1.0	5.5	12.8	81.7	492
TOT	3	22	95	169	1520	1784
PCT	.2	1.2	5.3	9.5	85.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
90/94	.0	.0	.0	.1	1.5	.9	.1	.1	45	2.6
85/89	.0	.0	.0	.0	2.4	7.7	2.4	.7	228	13.2
80/84	.0	.0	.0	.1	2.5	28.6	36.5	6.5	1286	74.2
75/79	.0	.0	.0	.0	.0	.6	5.8	3.3	170	9.8
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	3	111	657	776	185	1732	100.0
PCT	.0	.0	.0	.2	6.4	37.9	44.8	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
*	.5	1.3	.5	*	.0	*	*	.0	.1
.2	1.8	6.9	3.4	.3	.1	.1	*	.0	.4
2.5	15.8	38.7	12.6	1.3	.1	.2	.7	.0	2.3
.8	2.3	4.5	1.5	.4	.1	.2	.1	.0	.1
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3.4	20.4	51.6	18.1	2.1	.3	.4	.8	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	81	79	77	73	81.2	831
06&09	88	84	83	80	78	77	70	80.5	662
12&15	95	91	87	82	79	77	76	82.6	873
18&21	95	92	90	84	80	77	73	84.0	683
TOT	95	90	87	82	79	77	70	82.1	3049

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.1	32.0	54.1	12.8	82	444
06&09	.0	.0	.7	23.3	59.1	16.9	84	408
12&15	.0	.2	5.0	43.9	42.9	8.1	80	483
18&21	.0	.5	18.9	51.0	24.0	5.5	76	433
TOT	0	3	114	670	792	189	81	1768

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1862-1974

AREA 0002 CAYENNE
6.6N 52.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.2	9	.0	.4
9/10	.0	.0	.0	.0	.0	.7	*	15	.0	.7
7/8	.0	.0	*	.0	.6	1.1	.0	38	.0	1.8
6	.0	.0	.0	.0	.5	.6	.0	22	.0	1.0
5	.0	.0	.0	.2	1.7	.5	.0	50	.0	2.4
4	.0	.0	.0	1.0	2.0	.1	.0	66	.0	3.1
3	.0	.0	.0	2.0	2.0	.1	.0	88	.1	4.1
2	.0	.0	.1	3.9	1.8	*	.0	124	*	5.8
1	.0	.0	.3	7.9	1.8	*	.0	212	.0	10.0
0	.0	.0	2.5	14.7	.5	.0	.0	375	.1	17.6
-1	.0	.0	3.6	12.2	.3	*	.0	341	.3	15.8
-2	.0	.0	5.3	9.2	.2	.0	.0	311	.2	14.5
-3	.0	.0	4.2	4.1	.1	.0	.0	178	.0	8.4
-4	.0	*	3.6	2.5	*	.0	.0	132	.0	6.2
-5	.0	.0	2.5	1.1	*	.0	.0	77	.0	3.6
-6	.0	.1	1.6	*	.0	.0	.0	36	.0	1.7
-7/-8	.0	.1	.9	.3	.0	.0	.0	28	.0	1.3
-9/-10	.0	.1	*	*	.0	.0	.0	4	.0	.2
-11/-13	.0	.1	.1	.0	.0	.0	.0	5	.0	.2
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	9	527	1252	244	74	7	2114	18	2096
PCT	*	.4	24.9	59.2	11.5	3.5	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.2	.8	.3	.0	.0	.0	1.3
3-4	.2	.3	.0	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.6	.3	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.0	.0	.0	.0	2.4
1-2	.9	9.2	.8	.0	.0	.0	10.9
3-4	.2	5.2	2.5	.0	.0	.0	7.9
5-6	.2	1.0	.9	.0	.0	.0	2.0
7	.0	.2	.5	.0	.0	.0	.6
8-9	.0	.2	.2	.2	.0	.0	.5
10-11	.0	.3	.2	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	18.2	4.9	.2	.0	.0	24.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	4.2	.0	.0	.0	.0	4.8
1-2	.8	19.4	5.8	.0	.0	.0	26.0
3-4	.6	11.3	5.5	.0	.0	.0	17.4
5-6	.2	2.2	3.2	.0	.0	.0	5.5
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	37.1	15.5	.0	.0	.0	54.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3
1-2	.6	3.4	1.2	.0	.0	.0	5.3
3-4	.0	3.0	1.6	.2	.0	.0	4.7
5-6	.0	.5	.7	.0	.0	.0	1.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.1	3.9	.2	.0	.0	12.9

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0002 CAYENNE 6.6N 52.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3	*	.0	.0	.0	.0	.0	*
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.6	.0	.0	.0	1.5	*	.0	.0	.0	.0	.0	*

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.4	
1-2	.2	.3	.0	.0	.0	.0	.5	.0	*	.0	.0	.0	.0	*	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	.3	.0	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.4	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	8.6	.0	.0	.0	.0	13.3	
1-2	3.2	32.8	8.0	.0	.0	.0	44.1	
3-4	.9	20.0	9.4	.2	.0	.0	30.5	
5-6	.3	3.7	4.9	.0	.0	.0	8.9	
7	.0	.2	2.2	.0	.0	.0	2.3	
8-9	.0	.2	.2	.2	.0	.0	.5	
10-11	.0	.3	.2	.0	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	65.8	24.8	.3	.0	.0	100.0	649

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.4	18.3	23.9	5.0	1.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	832	3
6-7	.1	1.5	8.8	9.9	1.5	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	334	4
8-9	.1	.3	2.3	3.6	1.7	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	5
10-11	.0	.6	.9	.8	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
12-13	.0	.0	1.0	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
>13	.0	.1	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
INDET	3.2	1.4	2.2	1.6	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	2
TOTAL	147	334	588	320	80	24	11	1	3	0	0	0	0	0	0	0	0	0	0	1508	3
PCT	9.7	22.1	39.0	21.2	5.3	1.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	2.9	.5	.5	.0	.0	.0	.0	4.0	4.0	.0	1.6	.0	.0		.8	89.6
NE	1.1	2.5	.3	.0	.0	.0	.0	3.9	2.6	.3	1.5	.0	.0		.2	91.5
E	2.0	2.0	.7	.0	.0	.0	.0	4.7	3.5	.7	1.1	.0	.3		.0	89.8
SE	1.3	1.7	.1	.0	.0	.0	.0	3.1	4.3	.0	1.5	.0	.0		.0	91.1
S	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0		.0	95.2
SW	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0		.0	84.6
W	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0		.0	81.8
NW	4.7	4.7	.0	.0	.0	.0	.0	9.3	.0	4.7	.0	.0	.0		.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0		.0	96.9
TOT PCT	1.7	2.1	.5	.0	.0	.0	.0	4.3	3.3	.5	1.2	.0	.1		.1	90.5
TOT OBS:	2215															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	1.2	2.1	.2	.0	.0	.0	.0	3.5	2.3	.7	1.6	.0	.0		.2	91.9
06&09	1.9	3.6	.8	.0	.0	.0	.0	6.3	3.6	1.3	.8	.0	.2		.0	87.8
12&15	1.6	1.4	.5	.0	.0	.0	.0	3.5	3.5	.0	1.3	.0	.2		.2	91.4
18&21	2.3	1.7	.6	.0	.0	.0	.0	4.5	3.6	.2	1.1	.0	.2		.0	90.4
TOT PCT	1.7	2.2	.5	.0	.0	.0	.0	4.4	3.2	.5	1.2	.0	.1		.1	90.4
TOT OBS:	2259															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	2.5	.5	.0	.0	.0		3.5	7.0	4.0	2.4	5.1	1.3	3.6	2.2	2.9	1.7
NE	2.3	17.9	7.8	.5	.0	.0		28.5	9.2	28.4	31.9	29.0	31.0	28.7	27.6	26.9	27.1
E	2.1	29.5	17.3	.6	.0	.0		49.5	9.9	49.6	42.0	52.4	44.0	50.2	46.0	51.1	48.8
SE	.9	8.5	4.3	.1	.0	.0		13.8	9.1	12.5	16.5	10.2	16.0	13.5	19.8	14.5	17.1
S	.1	1.2	.3	.0	.0	.0		1.6	7.4	1.5	2.9	.2	3.0	1.9	2.7	1.2	2.9
SW	*	.3	.1	.0	.0	.0		.4	7.1	.7	1.1	.0	1.3	.3	.0	.6	.0
W	.1	.1	.1	.0	.0	.0		.2	6.8	.4	.0	.0	.0	.3	.4	.4	.0
NW	.1	.6	.1	.0	.0	.0		.8	7.0	1.2	.5	1.3	.0	.6	.0	.5	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.6	2.7	1.7	3.4	1.0	1.3	1.8	1.7
TOT OBS	240	1877	944	36	0	0	3097		9.2	667	188	540	117	681	232	552	120
TOT PCT	7.7	60.6	30.5	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	1.6	*	.0	.0		3.5	7.0	3.7	4.4	3.2	2.6
NE	9.8	16.2	2.4	*	.0		28.5	9.2	29.2	29.4	28.4	26.9
E	12.8	32.8	3.8	*	.0		49.5	9.9	47.9	50.9	49.1	50.7
SE	4.6	8.6	.6	.0	.0		13.8	9.1	13.4	11.3	15.1	15.0
S	.9	.7	*	.0	.0		1.6	7.4	1.8	.7	2.1	1.5
SW	.3	.2	.0	.0	.0		.4	7.1	.8	.2	.2	.5
W	.2	.1	*	.0	.0		.2	6.8	.3	.0	.3	.3
NW	.4	.3	*	.0	.0		.8	7.0	1.1	1.1	.4	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.9	2.0	1.1	1.8
TOT OBS	1006	1872	216	3	0	3097		9.2	855	657	913	672
TOT PCT	32.5	60.4	7.0	.1	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

AREA 0002 CAYENNE
6.5N 51.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	7.0	60.5	29.0	1.6	.0	.0	9.2	100.0	855
06&09	2.0	5.6	60.6	30.6	1.2	.0	.0	9.2	100.0	657
12&15	1.1	6.4	60.0	31.7	.9	.0	.0	9.2	100.0	913
18&21	1.8	5.1	61.6	30.7	.9	.0	.0	9.3	100.0	672
TOT	91	189	1877	944	36	0	0	9.2		3097
PCT	1.6	6.1	60.6	30.5	1.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.1	1.2	.3		3.6
NE	9.6	8.9	8.3	1.7		3.7
E	17.7	16.2	14.3	4.3		3.8
SE	3.1	3.8	2.8	.9		3.9
S	.1	.7	*	*		3.5
SW	.1	*	.1	.0		3.0
W	.0	.1	.1	.1		5.2
NW	.4	.3	.3	.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.3	.2		3.2
TOT OBS	564	527	459	129	1679	3.8
TOT PCT	33.6	31.4	27.3	7.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.2	.4	.0	.1	.0	.0	.0	3.6	
NE	.1	.0	.3	1.3	2.0	.7	.3	.1	*	.0	23.7	
E	.2	.1	.6	2.3	4.4	1.8	.6	.1	.1	.0	42.3	
SE	.1	.0	.1	.5	.9	.3	.2	.1	.1	.0	8.4	
S	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.8	
SW	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.1	.1	.0	.0	*	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	1.3	
TOT OBS	7	2	19	76	129	48	19	6	4	0	1369	1679
TOT PCT	.4	.1	1.1	4.5	7.7	2.9	1.1	.4	.2	.0	81.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.5	.6	.6	.6	.6	.6	.6
* OR >3500	1.6	1.8	1.8	1.8	1.9	1.9	1.9	1.9
* OR >2000	4.3	4.8	4.8	4.8	4.9	4.9	4.9	4.9
* OR >1000	10.5	12.2	12.4	12.4	12.5	12.5	12.5	12.5
* OR >600	13.9	16.3	16.9	16.9	17.0	17.0	17.0	17.0
* OR >300	14.8	17.4	18.0	18.0	18.1	18.1	18.1	18.1
* OR >150	14.9	17.5	18.1	18.1	18.3	18.3	18.3	18.3
* OR > 0	15.2	17.8	18.5	18.5	18.6	18.7	18.7	18.7
TOTAL	258	302	313	313	315	316	316	316

TOTAL NUMBER OF OBS: 1693

PCT FREQ NH <5/8: 81.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.8	17.1	26.8	20.6	11.2	6.6	4.4	4.0	3.5	.1	1765

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	*	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	*	*	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.2	.3	*	.0	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	1.1	
	PCP	.1	.5	.9	.2	.0	*	.0	.0	.0	.0	1.7	
5<10	NO PCP	.6	4.0	6.6	1.6	.1	.0	*	.1	.0	.0	13.0	
	TOT %	.6	4.5	7.5	1.8	.1	*	*	.1	.0	.0	14.7	
	PCP	.1	.4	1.1	.1	.0	.0	*	.1	.0	.0	1.9	
10+	NO PCP	3.4	22.3	43.3	9.4	.6	.2	.2	.8	.0	1.4	81.6	
	TOT %	3.5	22.7	44.4	9.5	.6	.2	.2	.9	.0	1.4	83.6	
	TOT OBS												2207
	TOT PCT	4.2	27.5	52.9	11.6	.7	.3	.2	1.0	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	*	.1	.2	*	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.2	*	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.4	.1	.0	.0	.0	.0	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	.1	.3	.1	.0	.0	.0	.0	.0		.5	
	11-21	.0	.2	.2	.1	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	1.1	
	0-3	.1	.7	.5	.2	.0	.0	*	*	.0	.0	1.6	
5<10	4-10	.4	2.8	4.4	.7	.1	.0	.0	.1	.0		8.4	
	11-21	.1	.6	1.7	.6	.0	*	.0	.0	.0		3.0	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	.6	4.0	6.7	1.6	.1	*	*	.1	.0	.0	13.2	
	0-3	.4	1.5	1.5	.7	.1	*	*	.1	.0	1.4	5.7	
10+	4-10	2.5	15.0	26.2	6.6	.7	.3	.1	.6	.0		51.8	
	11-21	.5	6.1	16.4	3.8	.2	*	*	.1	.0		27.1	
	22+	.0	.1	.3	.1	.0	.0	.0	.0	.0		.5	
	TOT %	3.3	22.7	44.4	11.1	.9	.3	.2	.8	.0	1.4	85.1	
	TOT OBS												2493
	TOT PCT	3.9	27.1	52.1	12.9	1.0	.4	.2	.9	.0	1.4	100.0	

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PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.2	1.4	4.7	5.4	3.3	.7	.0	.0	.0	16.3	83.7	423
06&09	.2	.0	1.2	4.7	6.9	1.9	1.4	.2	.0	.0	16.5	83.5	423
12&15	.4	.0	1.1	4.2	8.1	3.1	.9	.7	.0	.0	18.5	81.5	454
18&21	.4	.2	.7	3.7	8.8	3.3	1.8	.7	.9	.0	20.5	79.5	454
TOT	7	2	19	76	129	51	21	7	4	0	316	1438	1754
PCT	.4	.1	1.1	4.3	7.4	2.9	1.2	.4	.2	.0	18.0	82.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.9	.1	1.9	15.9	81.1	672
06&09	.0	.4	.0	.7	11.8	87.1	568
12&15	.0	.6	.0	.7	15.0	83.7	718
18&21	.2	.3	.2	1.0	10.2	88.1	579
TOT	1	14	2	28	341	2151	2537
PCT	*	.6	.1	1.1	13.4	84.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	2.2	7.6	9.8	82.6	408
06&09	.2	1.5	6.6	10.5	82.9	409
12&15	.5	2.1	6.6	12.5	80.9	439
18&21	.5	1.4	5.5	15.8	78.7	437
TOT	7	30	111	207	1375	1693
PCT	.4	1.8	6.6	12.2	81.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
90/94	.0	.0	.0	.2	.8	.4	.2	.1	26	1.6
85/89	.0	.0	.0	.0	2.2	5.3	1.9	.5	165	9.9
80/84	.0	.0	.0	.0	2.0	26.8	38.6	8.1	1257	75.5
75/79	.0	.0	.0	.0	.0	1.0	7.3	4.3	210	12.6
70/74	.0	.0	.0	.0	.0	.0	.0	.2	4	.2
TOTAL	0	0	0	4	34	558	799	219	1664	100.0
PCT	.0	.0	.0	.2	5.0	33.5	48.0	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.4	.9	.1	*	.0	.1	.1	.0	.0
.6	2.0	4.5	2.2	.2	.1	.1	.3	.0	.1
3.0	22.5	39.0	8.4	.6	.2	*	.6	.0	1.1
.3	3.4	7.6	.8	.0	.0	.0	.3	.0	.2
.0	.1	.1	.0	.0	.0	.1	.0	.0	.0
3.9	28.5	52.2	11.4	.8	.3	.2	1.2	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	83	81	78	75	73	80.9	859
06&09	87	84	82	80	78	76	73	80.1	665
12&15	95	90	87	82	79	76	75	82.4	913
18&21	95	91	89	83	79	77	74	83.2	676
TOT	95	90	86	81	78	76	73	81.7	3113

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.6	26.4	56.1	15.9	83	435
06&09	.0	.0	.3	25.3	56.8	17.8	84	400
12&15	.0	.2	6.2	36.3	45.5	11.8	81	468
18&21	.0	.8	12.6	46.7	33.1	6.9	78	390
TOT	0	4	86	568	813	222	82	1693

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	3	.0	.1
11/13	.0	.0	.0	.0	.1	.1	6	.0	.3
9/10	.0	.0	.0	.0	.6	.0	12	.0	.6
7/8	.0	.0	.0	.5	.6	.0	23	.0	1.1
6	.0	.0	.0	.7	.2	.0	20	.0	1.0
5	.0	.0	.1	1.1	.2	.0	31	*	1.5
4	.0	.0	1.1	1.9	.0	.0	62	.0	3.0
3	.0	.0	1.4	2.0	*	.0	71	*	3.4
2	.0	.2	4.3	1.9	*	.0	132	*	6.4
1	.0	.4	7.8	.8	.0	.0	184	.2	8.8
0	.0	2.1	14.0	.6	.0	.0	341	.3	16.4
-1	.0	5.4	12.0	.1	.0	.0	360	.4	17.2
-2	.0	7.9	8.1	.0	.0	.0	327	.1	15.9
-3	*	6.8	3.8	*	.0	.0	218	*	10.6
-4	.1	3.9	1.7	.0	.0	.0	116	.0	5.7
-5	.1	2.5	.9	.0	.0	.0	72	.0	3.5
-6	.3	1.3	.0	.0	.0	.0	33	.0	1.6
-7/-8	.3	.9	.0	.0	.0	.0	26	.0	1.3
-9/-10	.2	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	25		1128		40			26	2016
		644		199		6	2042		
PCT	1.2	31.5	55.2	9.7	2.0	.3	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.4	.1	.0	.0	.0	1.7
3-4	.0	.7	.6	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.3	.8	.0	.0	.0	3.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	*	.0	.0	.0	1.8
1-2	.9	7.9	1.6	.0	.0	.0	10.4
3-4	.3	3.5	5.1	.0	.0	.0	9.0
5-6	.0	1.0	1.2	.1	.0	.0	2.4
7	.0	.3	.4	.0	.0	.0	.7
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	14.1	8.5	.1	.0	.0	24.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.3	.0	.0	.0	2.7
1-2	.6	12.9	2.9	.0	.0	.0	16.5
3-4	.0	12.8	8.9	.1	.0	.0	21.9
5-6	.0	2.5	7.9	.0	.0	.0	10.4
7	.0	.1	2.0	.1	.0	.0	2.3
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	30.9	22.2	.6	.0	.0	54.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.4	4.0	.8	.0	.0	.0	5.3
3-4	.1	2.1	2.8	.0	.0	.0	5.1
5-6	.1	.7	1.6	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.2	5.3	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	*	.0	.0	.0	*
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	*	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.6	*	.0	.0	.0	.6	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	.1	.0	.0	.0	1.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	4.8	.3	.0	.0	.0	8.0	
1-2	2.2	26.9	5.7	.0	.0	.0	34.8	
3-4	.4	19.8	17.4	.1	.0	.0	37.8	
5-6	.1	4.3	10.6	.1	.0	.0	15.2	
7	.0	.6	2.5	.1	.0	.0	3.3	
8-9	.0	.0	.4	.3	.0	.0	.7	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								672
TOT PCT	5.8	56.4	37.1	.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	15.6	24.7	6.6	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	768	3
6-7	.5	1.8	8.6	9.5	2.5	1.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	356	4
8-9	.0	1.0	2.1	3.4	1.8	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	5
10-11	.0	.4	.6	.3	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	5
12-13	.0	.0	.7	.0	.1	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
>13	.0	.0	.0	.5	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
INDET	3.6	1.6	2.1	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	2
TOTAL	121	300	566	310	92	47	18	4	2	0	0	0	0	0	0	0	0	0	0	1460	4
PCT	8.3	20.5	38.8	21.2	6.3	3.2	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1874-1973

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.7	.0	.9	.0	.0	.0	.0	1.7	2.1	.0	.9	.0	.7		.0	94.5
NE	2.1	2.9	.6	.0	.0	.0	.0	5.6	4.6	.1	.4	.0	.1		.1	89.1
E	2.5	2.6	.4	.0	.0	.0	.0	5.5	4.3	.4	.8	.0	.6		.0	88.3
SE	7.5	1.2	1.6	.0	.0	.0	.0	10.3	7.2	.6	.0	.0	.0		.0	81.9
S	16.0	.0	.0	.0	.0	.0	.0	16.0	.0	.0	.0	.0	.0		.0	84.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	15.4	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0		.0	84.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.5	2.5	.6	.0	.0	.0	.0	5.6	4.4	.3	.6	.0	.3		*	88.8
TOT OBS:	2120															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	3.3	2.3	1.0	.0	.0	.0	.0	6.6	2.3	1.0	1.2	.0	.6		.0	88.4
06&09	2.3	2.5	.8	.0	.0	.0	.0	5.5	5.9	.2	.4	.0	.4		.0	87.6
12&15	2.7	3.0	.2	.0	.0	.0	.0	5.8	3.9	.0	.7	.0	.2		.2	89.2
18&21	1.7	2.3	.4	.0	.0	.0	.0	4.4	5.5	.0	.0	.0	.2		.0	90.0
TOT PCT	2.5	2.5	.6	.0	.0	.0	.0	5.6	4.4	.3	.6	.0	.3		*	88.8
TOT OBS:	2137															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	2.4	1.6	.0	.0	.0		4.1	10.1	4.8	2.0	5.5	.0	4.8	2.5	3.7	1.9
NE	1.1	19.9	23.1	1.9	*	.0		46.1	12.0	47.1	41.8	49.3	42.4	45.9	39.7	46.1	46.6
E	.8	18.5	20.8	2.1	.1	.0		42.3	12.3	40.9	42.9	41.5	42.4	42.8	40.5	44.9	40.1
SE	.6	3.5	1.4	*	.0	.0		5.6	8.5	5.3	10.5	3.0	13.0	5.1	13.2	3.2	8.9
S	.0	.4	.1	.1	.0	.0		.5	9.8	.5	.3	.1	.5	.4	2.3	.2	2.4
SW	*	.1	*	*	.0	.0		.2	10.8	.1	.3	.0	.0	.2	.8	.2	.0
W	*	.1	.0	.0	.0	.0		.1	5.6	.2	.0	.0	.0	.0	.5	.2	.0
NW	*	.1	.1	.0	.0	.0		.2	8.4	.1	.0	.1	.0	.4	.0	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.1	2.0	.4	1.9	.5	.5	1.1	.0
TOT OBS	105	1310	1380	121	3	0	2919		11.7	623	147	556	108	628	197	556	104
TOT PCT	3.6	44.9	47.3	4.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	3.0	.2	.0	.0		4.1	10.1	4.3	4.6	4.2	3.4
NE	6.5	31.0	8.5	.1	.0		46.1	12.0	46.1	48.2	44.4	46.2
E	5.4	28.1	8.3	.4	.0		42.3	12.3	41.2	41.7	42.2	44.2
SE	2.3	3.0	.3	.0	.0		5.6	8.5	6.3	4.6	7.0	4.1
S	.3	.1	.1	*	.0		.5	9.8	.5	.2	.8	.6
SW	.1	*	*	*	.0		.2	10.8	.1	.0	.3	.2
W	.1	*	.0	.0	.0		.1	5.6	.1	.0	.1	.2
NW	.1	.2	.0	.0	.0		.2	8.4	.1	.1	.3	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.3	.6	.5	.9
TOT OBS	485	1909	508	17	0	2919		11.7	770	664	825	660
TOT PCT	16.6	65.4	17.4	.6	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1874-1973

AREA 0002 CAYENNE
6.0N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	3.1	45.8	44.8	4.9	.0	.0	11.5	100.0	770
06&09	.6	2.3	44.7	48.9	3.3	.2	.0	11.8	100.0	664
12&15	.5	2.8	45.8	47.3	3.6	.0	.0	11.6	100.0	825
18&21	.9	2.9	42.7	48.5	4.7	.3	.0	12.1	100.0	660
TOT	24	81	1310	1380	121	3	0	11.7		2919
PCT	.8	2.8	44.9	47.3	4.1	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.1	2.2	.5		4.6
NE	12.8	14.5	15.9	5.0		4.2
E	12.1	11.6	13.8	5.7		4.2
SE	.4	.6	.9	.7		5.2
S	*	.1	*	*		4.4
SW	.0	.0	.1	.1		7.0
W	.0	.0	.0	.1		8.0
NW	.1	*	.1	.1		5.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.1		5.0
TOT OBS	453	479	568	207	1707	4.3
TOT PCT	26.5	28.1	33.3	12.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.7	.7	.2	*	*	.0	.0	3.1	
NE	.1	.1	.5	3.3	4.9	.8	.9	.2	.1	.1	37.2	
E	.1	.1	.7	3.5	5.0	1.0	.6	.2	.0	.0	32.0	
SE	*	.0	.1	.3	.4	.1	.1	.1	.0	.0	1.6	
S	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.2	
SW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.1	.0	.0	*	.0	.0	*	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
TOT OBS	6	3	22	136	190	36	29	9	1	1	1274	1707
TOT PCT	.4	.2	1.3	8.0	11.1	2.1	1.7	.5	.1	.1	74.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.1	2.2	2.3	2.4	2.4	2.4	2.4	2.4
* OR >2000	3.9	4.2	4.3	4.5	4.6	4.6	4.6	4.6
* OR >1000	13.4	14.9	15.4	15.7	15.7	15.7	15.7	15.7
* OR >600	19.5	22.7	23.3	23.6	23.6	23.6	23.6	23.6
* OR >300	20.3	23.8	24.5	24.8	24.9	24.9	24.9	24.9
* OR >150	20.4	24.0	24.7	25.0	25.1	25.1	25.1	25.1
* OR > 0	20.5	24.3	25.0	25.4	25.4	25.4	25.4	25.4
TOTAL	351	416	428	434	435	435	435	435

TOTAL NUMBER OF OBS: 1711

PCT FREQ NH <5/8: 74.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.4	14.7	21.5	20.7	11.7	7.6	6.8	4.8	6.7 .2	1788

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1874-1973

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	*	.1	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	*	.2	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	PCP	*	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.3	.1	*	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.6	
2<5	NO PCP	*	.4	.3	*	.0	.0	.0	.0	.0	.0	.7	
	TOT %	*	.8	.4	*	.0	.0	.0	.0	.0	.0	1.3	
	PCP	*	.9	1.2	.3	*	.0	.0	.0	.0	.0	2.6	
5<10	NO PCP	.6	4.6	4.6	.7	*	*	.1	*	.0	.0	10.6	
	TOT %	.6	5.5	5.8	1.0	.1	*	.1	*	.0	.0	13.2	
	PCP	.0	1.0	.7	.1	.0	.0	.0	*	.0	.0	1.9	
10+	NO PCP	4.3	39.7	35.0	2.7	.2	.1	*	.2	.0	.4	82.6	
	TOT %	4.3	40.7	35.7	2.8	.2	.1	*	.3	.0	.4	84.5	
	TOT OBS												2110
	TOT PCT	5.0	47.5	42.4	3.8	.3	.1	.1	.3	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	11-21	*	.1	*	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.2	.1	*	.0	.0	.0	.0	.0		.4	
	11-21	*	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.3	.1	*	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	*	.6	.2	.0	.0	.0	.0	.0	.0		.8	
	11-21	.0	.4	.3	*	.0	.0	.0	.0	.0		.7	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	1.0	.5	.1	.0	.0	.0	.0	.0	.0	1.6	
	0-3	.0	.1	.1	.1	.0	.0	.0	*	.0	*	.3	
5<10	4-10	.3	1.9	2.2	.5	*	.0	.1	.0	.0		4.9	
	11-21	.3	3.3	3.0	.4	.0	*	.0	.0	.0		7.0	
	22+	.0	.2	.3	*	.1	*	.0	.0	.0		.6	
	TOT %	.5	5.4	5.5	1.0	.1	.1	.1	*	.0	*	12.8	
	0-3	.1	1.0	.8	.4	.0	.0	*	.0	.0	.5	2.9	
10+	4-10	2.2	17.9	15.6	1.9	.2	.1	.0	.2	.0		38.0	
	11-21	1.6	19.6	18.5	.8	*	.0	.0	.1	.0		40.6	
	22+	.0	1.2	1.7	.0	*	.0	.0	.0	.0		3.0	
	TOT %	3.9	39.7	36.6	3.1	.3	.1	*	.2	.0	.5	84.5	
	TOT OBS												2450
	TOT PCT	4.5	46.7	43.1	4.2	.4	.1	.1	.3	.0	.6	100.0	

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PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1874-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	1.0	6.0	12.9	1.0	2.2	.0	.0	.0	23.6	76.4	402
06&09	.2	.0	.9	8.6	11.6	1.1	1.8	.2	.0	.0	24.5	75.5	441
12&15	.2	.2	1.1	8.0	9.4	3.7	.7	.9	.0	.2	24.5	75.5	436
18&21	.6	.2	1.9	8.3	10.0	2.5	2.1	.8	.2	.0	26.6	73.4	482
TOT	6	3	22	137	192	37	30	9	1	1	438	1323	1761
PCT	.3	.2	1.2	7.8	10.9	2.1	1.7	.5	.1	.1	24.9	75.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	1.3	.5	1.8	13.6	82.7	626
06&09	.2	.3	.2	1.4	11.6	86.4	587
12&15	.0	.7	.7	1.8	14.4	82.3	668
18&21	.0	.0	.3	1.2	11.4	87.1	587
TOT	2	15	11	38	316	2086	2468
PCT	.1	.6	.4	1.5	12.8	84.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.5	8.1	15.9	76.0	396
06&09	.2	1.4	10.6	14.9	74.5	423
12&15	.2	1.9	12.4	13.4	74.2	419
18&21	.6	2.7	11.6	15.4	72.9	473
TOT	6	33	184	255	1272	1711
PCT	.4	1.9	10.8	14.9	74.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.1	.4	.2	.2	.1	17	1.0
85/89	.0	.0	.0	.2	.7	3.0	.8	.5	88	5.1
80/84	.0	.0	.0	.2	1.9	26.8	31.8	9.0	1191	69.7
75/79	.0	.0	.0	.0	.3	3.7	11.4	8.3	405	23.7
70/74	.0	.0	.0	.0	.0	.0	.1	.3	7	.4
TOTAL	0	0	0	9	57	577	758	308	1709	100.0
PCT	.0	.0	.0	.5	3.3	33.8	44.4	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.1	.1	.6	.2	.0	.0	.0	*	.0	.0
.2	2.5	2.2	.3	.0	.0	.0	.0	.0	.0
3.0	33.6	30.4	2.0	.1	.1	.0	.2	.0	.4
1.7	12.5	8.4	.7	.1	.0	.1	.1	.0	.1
.0	.1	.2	.1	.0	.0	.0	.0	.0	.0
5.0	48.8	41.8	3.2	.3	.1	.1	.3	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	82	80	77	75	69	80.0	762
06&09	86	83	82	80	77	75	73	79.6	663
12&15	92	89	85	81	78	75	73	81.1	815
18&21	95	90	87	82	78	75	74	82.0	659
TOT	95	88	85	80	77	75	69	80.7	2899

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	.7	30.0	49.6	19.4	84	417
06&09	.0	.0	1.6	23.8	54.1	20.5	84	429
12&15	.0	.4	2.2	37.4	39.0	20.9	83	446
18&21	.0	1.4	8.6	42.9	35.9	11.2	79	429
TOT	0	9	57	578	767	310	82	1721

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1874-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.1	4	.0	.2
9/10	.0	.0	.0	.0	.1	.3	.0	7	.0	.4
7/8	.0	.0	.0	.0	.6	.4	.0	19	.0	1.0
6	.0	.0	.0	.1	.4	.0	.0	10	.0	.5
5	.0	.0	.1	.2	.6	.0	.0	16	.0	.8
4	.0	.0	.1	1.1	1.2	.1	.0	48	.0	2.5
3	.0	.0	.1	1.3	1.0	.0	.0	46	.0	2.4
2	.0	.0	.3	4.4	.6	.1	.0	106	.0	5.4
1	.0	.0	1.0	8.4	.1	.0	.0	185	.1	9.4
0	.0	.0	6.0	13.4	.1	.0	.0	381	.0	19.6
-1	.0	.0	11.2	7.6	.0	.0	.0	368	.0	18.9
-2	.0	.0	12.3	3.6	.1	.0	.0	312	.2	15.9
-3	.0	.4	8.9	1.2	.0	.0	.0	205	.0	10.5
-4	.0	.6	5.1	.5	.0	.0	.0	120	.0	6.2
-5	.0	1.0	1.9	.4	.0	.0	.0	64	.0	3.3
-6	.1	.7	.9	.0	.0	.0	.0	31	.0	1.6
-7/-8	.0	.7	.5	.1	.0	.0	.0	25	.0	1.3
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		941		94		1		5	1943
		65		828		18		1948		
PCT	.1	3.3	48.3	42.5	4.8	.9	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	1.2	.6	.0	.0	.0	1.8
5-6	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.5	.0	.0	.0	3.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.7	.3	.0	.0	.0	2.6
1-2	.0	10.1	3.6	.0	.0	.0	13.7
3-4	.0	6.2	7.8	.0	.0	.0	14.0
5-6	.0	2.1	7.3	.5	.0	.0	10.0
7	.0	.0	3.1	.9	.0	.0	4.0
8-9	.0	.0	1.3	.1	.0	.0	1.5
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	20.2	23.7	1.6	*	.0	46.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.0	7.8	2.6	.0	.0	.0	10.4
3-4	.0	8.1	8.9	.0	.0	.0	17.0
5-6	.0	1.7	7.5	.3	.0	.0	9.5
7	.0	.2	4.1	.8	.0	.0	5.0
8-9	.0	.0	.6	.4	.0	.0	1.0
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	18.9	23.7	2.1	.3	.0	45.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.6	.0	.0	.0	.0	.7
1-2	.0	1.1	.2	.0	.0	.0	1.3
3-4	.2	.5	.4	.0	.0	.0	1.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	.9	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.2	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.4	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.2	.3	.0	.0	.0	6.5	
1-2	.2	19.4	6.5	.0	.0	.0	26.1	
3-4	.2	16.2	17.6	.0	.0	.0	34.0	
5-6	.0	3.9	15.7	.8	.0	.0	20.4	
7	.0	.2	7.6	1.6	.0	.0	9.4	
8-9	.0	.0	1.9	.5	.0	.0	2.4	
10-11	.0	.0	.2	.8	.0	.0	1.0	
12	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								618
TOT PCT	2.3	43.9	49.8	3.7	.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	8.3	15.5	7.9	2.3	1.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363	4
6-7	.0	.5	7.8	13.3	7.0	1.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	465	5
8-9	.0	.5	1.7	4.8	6.7	2.9	.8	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	7
10-11	.0	.3	.7	.8	2.1	1.1	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	7
12-13	.0	.0	.1	.2	.3	.0	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
>13	.0	.0	.0	.4	.2	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
INDET	.8	1.0	1.0	1.0	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
TOTAL	41	158	403	423	287	109	42	10	19	1	0	0	0	0	0	0	0	0	0	1493	5
PCT	2.7	10.6	27.0	28.3	19.2	7.3	2.8	.7	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	1.5	1.5	.0	.0	.0	.0	5.4	3.2	.8	.5	.0	.7	.2		89.2
NE	2.2	2.3	.8	.0	.0	.0	.0	5.3	3.8	.7	.9	.0	.8	.1		88.5
E	2.3	2.2	.9	.0	.0	.0	*	5.3	3.4	.6	.6	.0	.6	*		89.5
SE	7.7	3.2	1.7	.0	.0	.0	.0	12.4	4.6	.5	.5	.0	.4	*		81.6
S	9.5	3.9	.3	.0	.0	.0	.0	13.8	10.3	.2	.4	.0	.0	.0		67.1
SW	11.9	2.1	1.1	.0	.0	.0	.0	14.5	8.0	1.0	1.4	.0	.0	.0		75.1
W	5.1	4.8	.3	.0	.0	.0	.0	10.2	11.5	1.7	.0	.0	.3	.0		76.3
NW	7.3	2.5	2.7	.0	.0	.0	.0	12.4	2.7	2.3	.0	.0	.9	.0		81.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.0	.4	.3	.0	.0	.0	.0	5.7	2.3	1.0	.0	.0	.4	.0		82.3
TOT PCT	2.4	2.3	.9	.0	.0	.0	*	5.5	3.6	.6	.7	.0	.7	.1		88.8
TOT OBS: 25465																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	1.9	1.0	.0	.0	.0	*	5.0	2.5	1.1	1.2	.0	.7	*		89.6
06&09	3.0	2.6	1.3	.0	.0	.0	.0	6.8	4.3	1.4	.5	.0	.4	*		86.7
12&15	2.5	2.4	.6	.0	.0	.0	.0	5.5	3.6	*	.9	.0	1.0	.1		89.0
18&21	2.3	2.4	.8	.0	.0	.0	.0	5.4	4.0	*	.5	.0	.9	.1		89.1
TOT PCT	2.5	2.3	.9	.0	.0	.0	*	5.6	3.6	.6	.8	.0	.7	.1		88.6
TOT OBS: 25874																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	2.2	1.8	.1	*	.0		4.5	9.5	5.1	2.6	5.6	2.0	4.8	3.9	3.9	2.8
NE	1.2	14.9	22.1	1.9	*	.0		40.1	11.3	40.7	42.2	40.9	41.1	39.9	37.9	38.6	40.3
E	1.6	18.8	17.1	1.3	*	.0		38.8	11.6	39.1	36.2	40.1	38.9	38.8	36.1	39.4	36.0
SE	.8	7.0	3.0	.1	.0	.0		10.9	9.4	9.7	12.5	8.4	12.3	11.4	15.0	11.5	13.1
S	.3	1.5	.5	*	*	.0		2.4	8.3	1.9	3.0	1.3	2.5	2.3	4.0	2.8	4.3
SW	.1	.4	.1	*	.0	.0		.6	7.8	.5	1.0	.4	1.0	.5	1.0	.7	1.5
W	.1	.2	.1	*	.0	.0		.4	7.1	.3	.2	.3	.3	.4	.4	.5	.4
NW	.1	.4	.1	*	*	.0		.7	8.3	.7	.5	.7	.3	.7	.7	.7	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	2.0	1.7	2.2	1.5	1.2	.9	1.8	1.1
TOT OBS							34867		11.1	7584	1837	6258	1329	7548	2387	6690	1234
TOT PCT	6.3	45.4	44.9	3.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	2.5	.6	*	.0		4.5	9.5	4.6	5.0	4.6	3.7
NE	5.8	24.9	9.2	.2	*		40.1	11.3	40.9	41.0	39.4	38.9
E	8.0	24.6	6.1	.2	*		38.8	11.6	38.5	39.9	38.2	38.9
SE	3.7	6.7	.6	*	.0		10.9	9.4	10.3	9.1	12.3	11.7
S	1.0	1.3	.1	*	.0		2.4	8.3	2.1	1.5	2.7	3.0
SW	.4	.2	*	*	.0		.6	7.8	.6	.5	.6	.8
W	.2	.2	*	*	.0		.4	7.1	.3	.3	.4	.5
NW	.3	.3	*	*	.0		.7	8.3	.7	.6	.7	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.9	2.0	1.2	1.7
TOT OBS						34867		11.1	9421	7587	9935	7924
TOT PCT	22.5	60.6	16.5	.4	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	4.7	46.1	43.9	3.3	*	.0	11.0	100.0	9421
06&09	2.0	3.9	45.7	45.2	3.2	*	.0	11.2	100.0	7587
12&15	1.2	5.1	46.0	44.1	3.6	*	.0	11.1	100.0	9935
18&21	1.7	4.6	43.6	46.6	3.4	.1	.0	11.4	100.0	7924
TOT								11.1		34867
PCT	1.7	4.6	45.4	44.9	3.4	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.2	1.8	.8		4.5
NE	9.7	11.3	13.4	5.6		4.3
E	11.6	12.0	12.3	4.5		4.1
SE	2.8	2.8	2.8	.9		4.7
S	.4	.4	.7	.3		4.4
SW	.1	.1	.2	.1		5.4
W	*	.1	.2	.1		5.7
NW	.2	.1	.2	.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.5	.2		4.3
TOT OBS					20400	4.3
TOT PCT	26.7	28.6	32.0	12.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.4	.7	.2	.1	*	*	*	3.4	
NE	.2	.1	.6	3.1	4.5	1.8	.8	.1	.1	*	28.7	
E	.2	.1	.5	2.7	3.7	1.5	.7	.2	.1	*	30.7	
SE	*	*	.1	.5	.9	.3	.1	*	*	*	7.2	
S	*	.0	.1	.1	.2	.1	*	*	*	.0	1.3	
SW	*	.0	*	*	.1	*	*	*	.0	.0	.2	
W	*	*	*	*	.1	*	*	*	*	.0	.2	
NW	*	*	*	.1	.1	*	*	*	*	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.1	.2	*	*	*	.0	*	1.3	
TOT OBS												20400
TOT PCT	.5	.3	1.5	7.1	10.3	4.1	1.8	.4	.2	.1	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.6	.7	.8	.8	.8	.8	.8	.8
= OR >3500	2.1	2.5	2.5	2.6	2.6	2.6	2.6	2.6
= OR >2000	5.4	6.5	6.6	6.7	6.7	6.7	6.7	6.7
= OR >1000	13.7	16.5	16.9	17.0	17.0	17.0	17.0	17.0
= OR >600	18.8	23.2	23.9	24.0	24.1	24.1	24.1	24.1
= OR >300	19.7	24.6	25.3	25.5	25.6	25.6	25.6	25.6
= OR >150	19.9	24.8	25.6	25.8	25.9	25.9	25.9	25.9
= OR > 0	20.1	25.2	26.1	26.3	26.4	26.4	26.4	26.4

TOTAL NUMBER OF OBS: 20577

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	13.3	22.0	20.0	12.3	7.2	6.6	5.5	7.1 .3	21551

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	.0	.0	.0	*	.0	*	*	
<1/2	NO PCP	.0	*	*	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	*	.0	.0	.0	*	.0	*	.1	
	PCP	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	*	.1	.1	.1	*	*	.0	.0	.0	.0	.3	
	TOT %	*	.1	.1	.1	*	*	.0	.0	.0	.0	.4	
	PCP	*	.1	.1	*	*	*	*	.0	.0	*	.2	
1<2	NO PCP	*	*	*	*	*	.0	*	*	.0	.0	.1	
	TOT %	*	.1	.1	*	*	*	*	*	.0	*	.3	
	PCP	*	.3	.2	.1	*	*	*	*	.0	*	.7	
2<5	NO PCP	*	.3	.2	.1	*	*	*	*	.0	.0	.7	
	TOT %	*	.6	.4	.2	*	*	*	*	.0	*	1.4	
	PCP	.2	1.0	.9	.2	*	*	*	*	.0	*	2.4	
5<10	NO PCP	.7	4.9	3.8	1.0	.2	.1	.1	.1	.0	.1	11.0	
	TOT %	.9	5.8	4.8	1.3	.2	.1	.1	.1	.0	.1	13.4	
	PCP	.1	.8	.8	.2	.1	*	*	*	.0	*	2.0	
10+	NO PCP	4.2	32.3	33.6	8.3	1.5	.3	.3	.6	.0	1.4	82.5	
	TOT %	4.3	33.0	34.4	8.5	1.6	.3	.3	.6	.0	1.4	84.5	
	TOT OBS												25369
	TOT PCT	5.3	39.8	39.9	10.0	1.9	.5	.4	.8	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	*	*	*	*	.0	.0	.0	*	.0		*	
	11-21	.0	*	*	*	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	.0	.0	*	.0	*	.1	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	*	.1	*	*	*	.0	.0	.0		.2	
	11-21	*	.1	.1	*	*	.0	.0	.0	.0		.2	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.1	.1	*	*	.0	.0	.0	.0	.4	
	0-3	*	*	*	*	*	*	.0	.0	.0	*	*	
1<2	4-10	*	.1	.1	*	*	*	*	*	.0		.2	
	11-21	*	.1	*	*	*	.0	.0	.0	.0		.1	
	22+	*	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	*	*	*	*	*	.0	*	.3	
	0-3	*	*	*	*	.0	*	*	*	.0	*	.1	
2<5	4-10	*	.2	.2	.1	*	*	*	*	.0		.6	
	11-21	*	.4	.2	.1	*	*	*	*	.0		.7	
	22+	*	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.7	.5	.2	*	*	*	*	.0	*	1.5	
	0-3	.1	.2	.2	.1	*	*	*	*	.0	.1	.6	
5<10	4-10	.4	1.8	1.9	.8	.1	.1	.1	.1	.0		5.1	
	11-21	.4	3.3	2.2	.4	*	*	*	*	.0		6.3	
	22+	*	.4	.3	*	*	*	.0	*	.0		.7	
	TOT %	.8	5.6	4.5	1.2	.2	.1	.1	.1	.0	.1	12.8	
	0-3	.4	1.0	1.4	.7	.2	.1	.1	.1	.0	1.5	5.3	
10+	4-10	2.0	12.6	16.9	5.7	1.1	.3	.2	.3	.0		39.1	
	11-21	1.6	18.4	15.2	2.4	.4	.1	*	.1	.0		38.2	
	22+	.1	1.2	1.0	*	*	*	*	*	.0		2.3	
	TOT %	4.0	33.2	34.4	8.8	1.7	.4	.3	.5	.0	1.5	84.9	
	TOT OBS												28874
	TOT PCT	4.9	39.8	39.8	10.3	2.0	.5	.4	.7	.0	1.6	100.0	

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.3	1.3	6.1	9.5	3.3	1.4	.2	.2	.2	23.0	77.0	5032
06&09	.7	.2	1.3	7.4	10.3	3.5	1.8	.4	.1	.2	25.9	74.1	5044
12&15	.4	.4	1.7	7.1	9.9	4.5	1.8	.4	.2	.1	26.5	73.5	5335
18&21	.4	.3	1.5	7.0	10.4	4.5	2.0	.6	.3	.1	27.1	72.9	5837
TOT													21248
PCT	.5	.3	1.4	6.9	10.0	4.0	1.8	.4	.2	.1	25.7	74.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.7	.3	2.0	14.9	81.9	7582
06&09	.1	.3	.3	1.4	12.8	85.2	6696
12&15	*	.4	.4	1.2	13.4	84.5	8021
18&21	*	.2	.3	1.3	10.7	87.4	7007
TOT							29286
PCT	.1	.4	.3	1.5	13.0	84.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	2.2	9.0	14.8	76.2	4872
06&09	.7	2.3	10.6	16.3	73.1	4863
12&15	.4	2.7	10.6	16.7	72.6	5170
18&21	.5	2.3	10.0	17.9	72.1	5672
TOT						20577
PCT	.5	2.4	10.1	16.5	73.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	*	.0	.0		*
90/94	.0	.0	.0	.2	.5	.3	.1	*		1.1
85/89	.0	.0	.0	.1	1.8	3.8	1.0	.4		7.1
80/84	.0	.0	*	.1	3.3	29.3	27.7	6.6		67.0
75/79	.0	.0	.0	*	.3	5.9	11.3	6.8		24.4
70/74	.0	.0	.0	.0	.0	*	.1	.3		.4
65/69	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL									20570	100.0
PCT	.0	.0	*	.4	5.9	39.2	40.3	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	.0	.0	.0	.0	.0	.0	*
.1	.2	.5	.2	*	*	*	*	.0	*
.3	1.9	3.2	1.3	.2	*	*	.1	.0	.1
3.1	26.5	27.7	6.6	1.2	.3	.2	.4	.0	1.1
1.6	11.5	8.5	1.5	.3	.2	.1	.3	.0	.3
*	.2	.1	.1	*	*	*	*	.0	*
.0	*	*	.0	.0	.0	.0	.0	.0	.0
5.1	40.2	40.0	9.6	1.8	.5	.4	.7	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	84	83	80	77	75	68	80.2	9366
06&09	88	83	82	80	77	75	68	79.6	7631
12&15	95	88	85	81	78	75	69	81.3	9889
18&21	95	90	88	82	78	76	68	82.5	7918
TOT	95	88	85	81	78	75	68	80.9	34804

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.5	35.6	45.9	15.9	82	5203
06&09	.0	.1	1.2	31.8	49.2	17.7	83	4908
12&15	.0	.3	4.8	42.0	38.6	14.3	81	5582
18&21	.0	1.2	14.9	47.0	27.8	9.1	77	5179
TOT	0	90	1243	8202	8391	2946	81	20872

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	.0	*	10	.0	*
11/13	.0	.0	.0	.0	.0	*	.1	.1	50	.0	.2
9/10	.0	.0	.0	.0	*	.1	.3	.1	102	.0	.4
7/8	.0	.0	.0	*	*	.5	.5	*	236	.0	1.0
6	.0	.0	.0	*	*	.5	.2	.0	182	.0	.8
5	.0	.0	.0	*	.2	1.0	.1	*	329	*	1.4
4	.0	.0	*	.1	.8	1.2	*	.0	513	.0	2.2
3	.0	.0	.0	.1	1.5	1.3	*	.0	684	*	2.9
2	.0	.0	*	.4	4.3	1.1	*	.0	1381	*	5.8
1	.0	.0	.0	1.0	6.8	.7	*	.0	2026	.1	8.5
0	.0	.0	*	5.2	11.3	.3	*	.0	3958	.2	16.6
-1	.0	.0	*	8.1	9.2	.1	*	.0	4107	.2	17.2
-2	.0	.0	.1	9.8	6.1	*	.0	.0	3760	.1	15.8
-3	.0	*	.1	7.9	3.1	*	.0	.0	2638	*	11.2
-4	.0	.0	.3	5.5	1.2	*	.0	.0	1666	*	7.1
-5	.0	.0	.5	3.0	.5	*	.0	.0	944	.0	4.0
-6	.0	*	.6	1.3	.1	.0	.0	.0	469	*	2.0
-7/-8	.0	*	.8	.9	.1	.0	.0	.0	444	*	1.9
-9/-10	.0	*	.2	.1	*	.0	.0	.0	79	.0	.3
-11/-13	.0	*	*	*	.0	.0	.0	.0	25	.0	.1
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL									23605		
PCT	*	.1	2.8	43.4	45.5	6.9	1.3	.2	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.5
1-2	.1	.7	.3	.0	.0	.0	1.0
3-4	*	.6	.7	.0	.0	.0	1.3
5-6	.0	.2	.6	*	.0	.0	.8
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	*	*	*	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	2.1	.1	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.1	.0	.0	.0	1.7
1-2	.3	6.5	2.9	.0	.0	.0	9.8
3-4	.1	4.4	8.7	.3	.0	.0	13.5
5-6	*	1.4	9.2	.6	.0	.0	11.2
7	.0	.2	3.2	.6	.0	.0	4.0
8-9	.0	.1	.9	.3	.0	.0	1.3
10-11	.0	*	.1	.1	.0	.0	.2
12	.0	.0	.1	*	*	.0	.1
13-16	.0	.0	.1	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	13.9	25.4	1.9	*	.0	41.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	.1	.0	.0	.0	2.6
1-2	.3	9.2	2.9	.0	.0	.0	12.5
3-4	.1	6.3	6.8	.2	.0	.0	13.5
5-6	*	1.4	5.7	.2	.0	.0	7.4
7	.0	.1	2.1	.4	.0	.0	2.6
8-9	.0	*	.4	.3	.0	.0	.7
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	*	*	*	*	.0	.1
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	*	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	19.2	18.3	1.3	*	.0	39.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	*	.0	.0	.0	1.0
1-2	.2	2.8	.8	.0	.0	.0	3.9
3-4	.1	1.6	1.5	*	.0	.0	3.2
5-6	*	.3	.7	*	.0	.0	1.0
7	.0	*	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.5	3.3	*	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1975

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	.1	.6	.1	.0	.0	.0	.8
3-4	*	.3	.1	.0	.0	.0	.4
5-6	.0	*	*	*	.0	.0	.1
7	.0	*	*	.0	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.4	*	.0	.0	1.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	.1	.1	*	.0	.0	.0	.2
3-4	.0	*	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	*	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	*	.1	*	.0	.0	.0	.1
3-4	.0	*	.0	.0	.0	.0	*
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	*	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	*	.0	.0	.0	.1	
1-2	.1	.1	.1	.0	.0	.0	.3	
3-4	.0	.1	.1	.0	.0	.0	.1	
5-6	.0	*	*	*	.0	.0	.1	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.3	.2	*	.0	.0	.6	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	5.0	.3	.0	.0	.0	8.5	
1-2	1.3	20.1	7.3	.0	.0	.0	28.7	
3-4	.4	13.2	17.8	.6	.0	.0	32.0	
5-6	.1	3.3	16.3	.9	.0	.0	20.5	
7	.0	.3	6.0	1.0	.0	.0	7.3	
8-9	.0	.1	1.5	.6	.0	.0	2.1	
10-11	.0	*	.3	.2	.0	.0	.5	
12	.0	*	.1	.1	*	.0	.2	
13-16	.0	.0	.1	*	.0	.0	.1	
17-19	.0	.0	*	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								7847
TOT PCT	5.0	42.0	49.6	3.3	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	11.7	17.9	7.9	2.0	.8	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7794	3
6-7	.1	1.5	8.1	12.0	5.6	2.0	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5415	5
8-9	*	.4	1.6	3.7	4.2	2.0	.6	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2286	6
10-11	.0	.3	.4	.8	.9	.6	.3	.2	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	631	6
12-13	.0	.0	.5	.4	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	270	6
>13	.0	*	*	.2	.1	.1	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	7
INDET	2.3	1.4	1.7	1.1	.4	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1308	3
TOTAL																				17817	4
PCT	5.4	15.3	30.2	26.1	13.4	5.9	2.3	.8	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1854-1975

AREA 0002 CAYENNE
6.6N 52.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
91/92	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	.0	2	*
89/90	.1	.0	.0	.3	*	.1	.1	.2	.1	.5	*	*	45	.1
87/88	.1	.2	.1	.7	.2	.3	.9	1.2	1.0	.9	.3	.3	178	.5
85/86	.7	1.2	.9	2.4	2.9	4.4	7.6	7.7	8.9	8.4	5.0	1.5	1488	4.4
83/84	8.2	7.7	8.4	13.5	23.2	27.5	31.9	36.6	31.6	33.5	27.0	13.7	7512	22.4
81/82	42.6	41.8	42.0	49.6	49.1	46.3	42.5	40.2	41.9	42.6	52.1	53.0	15227	45.3
79/80	38.4	39.3	36.7	27.5	20.7	18.4	14.6	12.0	14.4	12.9	13.7	26.6	7555	22.5
77/78	8.5	8.2	10.1	5.0	3.3	2.4	2.0	1.6	1.3	1.1	1.8	4.2	1350	4.0
75/76	.9	1.3	1.4	.9	.3	.3	.2	.2	.6	*	.1	.5	184	.5
73/74	.1	.3	.2	.1	*	.3	.1	.0	.1	.0	.0	.1	33	.1
71/72	.1	*	.2	*	.1	*	.0	*	.0	*	.0	.0	15	*
69/70	.3	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	12	*
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2745	2207	2970	2615	2823	2612	2880	2917	3038	2975	2968	2852	33602	100.0
MEAN	80.5	80.5	80.4	81.1	81.5	81.8	82.2	82.3	82.2	82.3	81.9	81.1	81.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1011	1010	1013	1013	1011	1010	1012	2186
FEB	1012	1013	1011	1011	1013	1013	1012	1012	1012	1950
MAR	1012	1013	1012	1012	1013	1013	1012	1012	1012	2300
APR	1012	1013	1011	1012	1013	1014	1012	1012	1012	2041
MAY	1013	1012	1012	1011	1013	1013	1012	1011	1012	2079
JUN	1014	1014	1013	1014	1014	1014	1013	1013	1013	1992
JUL	1014	1014	1013	1013	1014	1015	1013	1013	1014	2250
AUG	1013	1014	1013	1012	1014	1013	1013	1012	1013	2148
SEP	1013	1012	1012	1012	1014	1014	1012	1011	1013	2205
OCT	1012	1011	1011	1010	1013	1013	1011	1010	1012	2181
NOV	1011	1011	1010	1010	1012	1012	1010	1011	1011	2091
DEC	1012	1011	1011	1009	1012	1011	1011	1010	1011	2068
ANN	1013	1012	1012	1011	1013	1013	1012	1011	1012	25491
OBS	5966	303	5773	274	5945	843	6123	264		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1005	1008	1010	1012	1013	1015	1018	1023
FEB	1004	1006	1009	1011	1012	1013	1015	1017	1020
MAR	1002	1006	1009	1011	1012	1013	1016	1018	1020
APR	1001	1006	1009	1011	1012	1013	1015	1018	1022
MAY	1001	1006	1009	1011	1012	1014	1016	1018	1024
JUN	1000	1007	1010	1012	1013	1015	1017	1020	1025
JUL	1004	1008	1011	1013	1014	1015	1017	1019	1021
AUG	1003	1007	1010	1012	1013	1014	1016	1019	1024
SEP	1002	1007	1010	1011	1013	1014	1016	1019	1025
OCT	1001	1006	1008	1010	1012	1013	1016	1018	1023
NOV	1001	1005	1008	1010	1011	1012	1015	1017	1019
DEC	997	1005	1008	1010	1011	1013	1015	1017	1023

JANUARY

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1887-1973

AREA 0003 AMAZON DELTA
1.7N 46.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.9	2.1	1.3	.0	.0	.0	.0	5.3	8.2	.0	.3	.0	.5	.0		85.7
NE	4.5	2.8	1.6	.0	.0	.0	.0	8.7	5.1	.4	2.3	.0	.4	.1		83.0
E	2.5	2.4	.4	.0	.0	.0	.0	5.3	4.4	.7	2.0	.0	.5	.2		87.1
SE	8.4	2.2	.6	.0	.0	.0	.0	11.2	13.4	.0	6.7	.0	.0	.6		68.2
S	16.7	22.2	.0	.0	.0	.0	.0	38.9	16.7	.0	.0	.0	.0	.0		44.4
SW	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0		85.7
W	.0	.0	28.6	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0		71.4
NW	13.9	11.1	.0	.0	.0	.0	.0	25.0	11.1	.0	.0	.0	.0	.0		63.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		83.3
TOT PCT	3.8	2.7	1.2	.0	.0	.0	.0	7.5	5.6	.4	2.1	.0	.4	.1		83.9
TOT OBS.	1433															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	2.4	1.5	.0	.0	.0	.0	6.9	5.7	.6	3.3	.0	.0	.3		83.2
06&09	3.2	2.9	1.3	.0	.0	.0	.0	7.4	6.1	1.3	1.6	.0	.6	.3		83.0
12&15	3.3	1.8	.7	.0	.0	.0	.0	5.5	4.0	.0	2.0	.0	.7	.0		87.8
18&21	5.5	3.8	1.4	.0	.0	.0	.0	10.7	6.9	.0	1.4	.0	.3	.0		80.6
TOT PCT	3.7	2.6	1.2	.0	.0	.0	.0	7.5	5.5	.4	2.1	.0	.4	.1		84.0
TOT OBS:	1443															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	5.0	5.9	.4	*	.0		11.6	12.3	12.5	11.2	11.4	15.2	11.3	8.2	12.6	9.5
NE	1.3	21.9	27.4	1.3	*	.0		51.8	11.8	48.5	47.8	52.4	56.5	54.6	48.2	53.0	58.3
E	.9	15.2	15.3	.1	.0	.0		31.5	11.0	33.6	33.6	31.6	28.3	29.7	38.0	28.8	25.0
SE	.1	2.1	.9	.0	.0	.0		3.1	9.4	2.8	5.6	2.9	.0	2.9	3.0	3.6	7.1
S	.0	.1	.2	.0	.0	.0		.3	13.4	.5	.0	.5	.0	.2	.7	.0	.0
SW	.0	.1	*	.0	.0	.0		.1	8.2	.4	.0	.0	.0	.1	.2	.0	.0
W	.1	.2	.0	.0	.0	.0		.3	5.1	.4	.0	.0	.0	.5	.5	.1	.0
NW	*	.4	.2	.0	.0	.0		.6	8.9	.8	.0	.9	.0	.3	.7	.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.6	1.7	.3	.0	.5	.7	1.1	.0
TOT OBS	57	759	846	31	1	0	1694		11.4	353	58	333	23	384	150	372	21
TOT PCT	3.4	44.8	49.9	1.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	7.4	2.5	*	.0		11.6	12.3	12.3	11.7	10.4	12.5
NE	7.8	36.2	7.7	.1	.0		51.8	11.8	48.4	52.7	52.8	53.2
E	6.0	22.0	3.5	.0	.0		31.5	11.0	33.6	31.4	32.0	28.6
SE	.7	2.4	.1	.0	.0		3.1	9.4	3.2	2.7	2.9	3.8
S	.0	.2	.1	.0	.0		.3	13.4	.4	.4	.3	.0
SW	*	.1	.0	.0	.0		.1	8.2	.3	.0	.1	.0
W	.2	.1	.0	.0	.0		.3	5.1	.4	.0	.5	.1
NW	.3	.3	.1	.0	.0		.6	8.9	.7	.8	.4	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.7	.3	.6	1.0
TOT OBS	292	1163	236	3	0	1694		11.4	411	356	534	393
TOT PCT	17.2	68.7	13.9	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1887-1973

AREA 0003 AMAZON DELTA
1.7N 46.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	2.2	47.0	48.7	1.2	.2	.0	11.2	100.0	411
06&09	.3	1.7	42.4	53.1	2.5	.0	.0	11.9	100.0	356
12&15	.6	3.9	49.3	45.3	.9	.0	.0	10.8	100.0	534
18&21	1.0	2.5	38.7	54.7	3.1	.0	.0	12.0	100.0	393
TOT	11	46	759	846	31	1	0	11.4		1694
PCT	.6	2.7	44.8	49.9	1.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.7	5.3	2.3		5.4
NE	7.9	13.9	19.7	11.8		5.1
E	6.4	8.0	11.4	4.6		4.5
SE	.9	1.1	.5	.4		3.9
S	.0	.0	.1	.2		7.6
SW	.1	.0	.0	*		3.2
W	.0	.0	.0	.1		8.0
NW	*	.0	.1	.4		7.3
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.2	.2		6.4
TOT OBS	161	247	358	193	959	5.0
TOT PCT	16.8	25.8	37.3	20.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.3	1.1	2.1	.7	.4	.1	.0	.0	6.7	
NE	.3	*	1.4	6.1	8.7	2.4	1.4	.1	.0	.1	32.8	
E	.4	.2	1.0	2.1	3.4	1.6	1.1	.3	.0	.0	20.4	
SE	*	.0	*	.0	.2	.1	.2	*	.0	.0	2.3	
S	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.1	.2	.0	.1	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
TOT OBS	10	3	26	92	141	46	31	5	0	1	604	959
TOT PCT	1.0	.3	2.7	9.6	14.7	4.8	3.2	.5	.0	.1	63.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.5	.6	.6	.6	.6	.6	.6
* OR >3500	3.1	3.6	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	6.4	8.3	8.4	8.4	8.4	8.8	8.8	8.8
* OR >1000	17.9	22.5	23.1	23.1	23.2	23.6	23.6	23.6
* OR >600	25.5	32.1	32.7	32.7	32.8	33.2	33.2	33.2
* OR >300	27.3	34.6	35.3	35.4	35.5	36.0	36.0	36.0
* OR >150	27.6	34.9	35.6	35.7	35.8	36.3	36.3	36.3
* OR > 0	28.1	35.8	36.6	36.8	36.9	37.3	37.3	37.3
TOTAL	268	342	349	351	352	356	356	356

TOTAL NUMBER OF OBS: 954

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.0	8.8	18.0	18.2	14.6	8.3	9.7	7.0	10.8	.6	1044

PERIOD: (PRIMARY) 1938-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	.0	.6	.5	.0	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.8	.6	*	.0	.0	.0	.0	.0	.0	1.5	
	PCP	.3	2.0	.7	.2	.1	*	.1	.1	.0	.0	3.5	
5<10	NO PCP	1.7	10.6	5.2	.8	.0	.0	.1	.3	.0	.0	18.6	
	TOT %	1.9	12.6	5.9	1.0	.1	*	.1	.4	.0	.0	22.1	
	PCP	.3	2.1	.6	*	.1	.0	.0	*	.0	.0	3.1	
10+	NO PCP	8.6	36.5	24.4	1.8	.2	.1	.1	.2	.0	.4	72.3	
	TOT %	8.9	38.6	25.0	1.8	.3	.1	.1	.2	.0	.4	75.4	
	TOT OBS												1427
	TOT PCT	10.9	52.7	31.9	2.9	.3	.1	.2	.6	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.1	.2	.1	*	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	*	.1	.1	*	.0	.0	.0	.0	.0		.3	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	.3	.2	*	.0	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.5	*	.1	.0	.0	.0	.0	.0		.7	
	11-21	.1	.6	.5	.1	.0	.0	.0	.0	.0		1.3	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	1.2	.7	.1	.0	.0	.0	.0	.0	.0	2.2	
	0-3	.1	.3	.2	.1	.0	.0	.1	.0	.0	.0	.8	
5<10	4-10	.9	5.1	2.5	.4	.0	.0	.1	.2	.0		9.3	
	11-21	1.1	6.5	3.0	.3	*	*	.0	.2	.0		11.2	
	22+	.1	.5	*	.0	.0	.0	.0	.0	.0		.6	
	TOT %	2.1	12.5	5.8	.9	*	*	.1	.4	.0	.0	21.8	
	0-3	.2	1.0	.6	*	.0	.0	*	*	.0	.4	2.2	
10+	4-10	3.6	14.9	11.9	1.4	.1	.1	.1	.2	.0		32.3	
	11-21	4.7	21.3	12.4	.4	.2	.0	.0	*	.0		39.0	
	22+	.3	.7	.1	.0	.0	.0	.0	.0	.0		1.0	
	TOT %	8.8	37.9	24.9	1.8	.3	.1	.2	.2	.0	.4	74.5	
	TOT OBS												1566
	TOT PCT	11.3	52.2	31.8	2.9	.3	.1	.2	.6	.0	.4	100.0	

PERIOD: (PRIMARY) 1938-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.0	2.2	10.3	13.8	5.4	4.0	.9	.0	.4	37.5	62.5	224
06&09	1.6	.4	2.5	10.3	10.7	2.5	2.9	.0	.0	.0	30.9	69.1	243
12&15	.7	.4	2.2	8.2	12.7	5.2	3.4	.7	.0	.0	33.7	66.3	267
18&21	1.0	.3	3.1	7.7	17.5	5.2	2.1	.3	.0	.0	37.4	62.6	286
TOT	10	3	26	92	141	47	31	5	0	1	356	664	1020
PCT	1.0	.3	2.5	9.0	13.8	4.6	3.0	.5	.0	.1	34.9	65.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.1	1.3	.5	3.2	22.4	71.5	375
06&09	.3	.3	.6	2.4	22.7	73.7	335
12&15	.2	.4	.2	1.6	22.5	75.1	494
18&21	.0	.0	.8	2.1	20.4	76.7	373
TOT	6	8	8	36	347	1172	1577
PCT	.4	.5	.5	2.3	22.0	74.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	4.9	18.0	23.9	58.0	205
06&09	1.8	5.4	17.9	17.0	65.2	224
12&15	.8	4.0	13.9	22.7	63.3	251
18&21	1.1	4.7	13.5	25.9	60.6	274
TOT	10	45	149	215	590	954
PCT	1.0	4.7	15.6	22.5	61.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
90/94	.0	.0	.0	.2	.4	.1	.0	.1	8	.7
85/89	.0	.0	.0	.1	.6	3.3	1.3	.5	64	5.8
80/84	.0	.0	.0	.1	.8	21.0	34.9	10.4	742	67.3
75/79	.0	.0	.0	.0	.1	2.2	10.7	12.9	285	25.8
70/74	.0	.0	.0	.0	.0	.0	.0	.3	3	.3
TOTAL	0	0	0	4	21	293	518	267	1103	100.0
PCT	.0	.0	.0	.4	1.9	26.6	47.0	24.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	.2	.4	*	.0	.0	.0	.0	.0	.0
.5	2.2	2.5	.4	.0	*	.1	.0	.0	.1
6.2	37.2	20.5	2.1	.2	.1	.1	.6	.0	.2
3.1	13.2	8.2	.7	.2	*	.2	.1	.0	.2
.1	.2	.0	.0	.0	.0	.0	*	.0	.0
10.0	53.1	31.7	3.2	.4	.2	.3	.7	.0	.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	82	80	77	75	73	80.1	407
06&09	86	82	82	80	76	75	71	79.4	358
12&15	95	89	86	81	77	75	72	81.6	528
18&21	93	91	86	81	76	74	73	81.6	389
TOT	95	88	85	81	77	75	71	80.8	1682

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.7	17.9	51.3	30.0	86	273
06&09	.0	.0	.4	16.9	54.7	28.0	86	236
12&15	.0	.0	1.2	34.5	42.7	21.6	84	342
18&21	.0	1.6	5.5	33.6	41.8	17.6	81	256
TOT	0	4	21	293	522	267	84	1107

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.2	.2	4	.0	.2
9/10	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
7/8	.0	.0	.0	.0	.2	.2	.0	5	.0	.4
6	.0	.0	.0	.2	1.0	.2	.0	16	.0	1.3
5	.0	.0	.1	.2	1.1	.2	.0	20	.0	1.6
4	.0	.0	.0	1.2	1.4	.0	.0	33	.1	2.5
3	.0	.0	.2	1.9	1.3	.0	.0	43	.1	3.3
2	.0	.0	.0	4.4	.6	.1	.0	64	.0	5.1
1	.0	.0	.6	8.6	.5	.0	.0	121	.6	9.1
0	.0	.0	4.2	12.9	.0	.0	.0	216	.4	16.8
-1	.0	.0	10.5	8.6	.0	.0	.0	240	.2	18.9
-2	.0	.0	13.1	3.4	.0	.0	.0	208	.4	16.1
-3	.0	.0	7.3	1.2	.0	.0	.0	107	.1	8.4
-4	.0	.6	6.4	.4	.0	.0	.0	93	.1	7.3
-5	.0	1.0	2.5	.2	.0	.0	.0	46	.1	3.6
-6	.0	1.0	.7	.1	.0	.0	.0	23	.0	1.8
-7/-8	.0	.8	.2	.0	.0	.0	.0	13	.0	1.0
-9/-10	.1	.2	.0	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		577		77		2		24	1235
		46		543		12		1259		
PCT	.2	3.7	45.8	43.1	6.1	1.0	.2	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.4	.3	.0	.0	.0	1.7
3-4	.0	.7	2.2	.0	.0	.0	2.9
5-6	.0	.7	3.2	.0	.0	.0	3.9
7	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.2	.3	.0	.0	9.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	5.8	3.6	.0	.0	.0	9.4
3-4	.0	8.7	13.4	.5	.0	.0	22.6
5-6	.5	3.5	16.7	.5	.0	.0	21.3
7	.0	.5	2.4	1.3	.0	.0	4.2
8-9	.0	.0	.8	.3	.0	.0	1.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	19.9	37.2	2.6	.0	.0	60.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.4	.0	.0	.0	2.4
1-2	.0	3.0	2.8	.0	.0	.0	5.8
3-4	.0	4.4	6.1	.0	.0	.0	10.5
5-6	.0	1.4	4.5	.0	.0	.0	5.9
7	.0	.5	1.2	.0	.0	.0	1.7
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.4	15.4	.0	.0	.0	26.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.1	.0	.0	.0	.8
1-2	.0	.8	.5	.0	.0	.0	1.3
3-4	.0	.1	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.0	.0	.0	.0	2.6

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.0	.3	.1	.0	.0	.0	.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	4.6	.5	.0	.0	.0	5.1	
1-2	.0	11.1	7.2	.0	.0	.0	18.3	
3-4	.0	14.4	22.1	.5	.0	.0	37.0	
5-6	.5	5.7	24.4	.5	.0	.0	31.1	
7	.0	1.0	4.1	1.5	.0	.0	6.7	
8-9	.0	.0	1.0	.3	.0	.0	1.3	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	36.8	59.9	2.8	.0	.0	100.0	389

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.4	19.6	10.4	2.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	360	4
6-7	.2	.6	9.0	13.5	5.1	1.7	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	5
8-9	.0	.0	2.3	4.2	4.6	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	6
10-11	.0	.6	.3	.7	.9	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
12-13	.0	.0	.3	.8	.1	.3	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
>13	.0	.0	.0	.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
INDET	.8	1.5	1.9	1.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	3
TOTAL	15	87	289	273	125	44	25	3	1	2	0	0	0	0	0	0	0	0	0	864	5
PCT	1.7	10.1	33.4	31.6	14.5	5.1	2.9	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1882-1973

AREA 0003 AMAZON DELTA
1.6N 46.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.5	3.1	.6	.0	.0	.0	.0	7.3	4.2	.0	1.2	.0	1.2		.0	86.1
NE	3.7	6.4	1.8	.0	.0	.0	.0	11.7	4.9	.1	3.1	.0	1.7		.1	78.4
E	5.8	7.3	1.9	.0	.0	.0	.0	15.0	4.7	1.6	.3	.0	.0		.0	78.7
SE	9.2	2.8	3.7	.0	.0	.0	.0	11.9	14.7	.0	3.7	.0	.0		.0	69.7
S	28.6	5.7	.0	.0	.0	.0	.0	34.3	11.4	.0	.0	.0	.0		.0	54.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0		.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	19.4	.0	.0	.0	.0		.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	4.5	6.1	1.7	.0	.0	.0	.0	12.1	5.3	.5	2.1	.0	1.1		.1	78.8
TOT OBS:	1228															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.0	6.4	2.7	.0	.0	.0	.0	12.2	2.7	1.0	3.0	.0	.7		.0	80.7
06609	4.5	7.1	1.9	.0	.0	.0	.0	13.5	8.3	.8	1.5	.0	.4		.0	75.6
12615	5.5	5.3	1.3	.0	.0	.0	.0	11.8	3.0	.0	2.3	.0	1.0		.3	81.8
18621	4.2	5.6	1.8	.0	.0	.0	.0	11.2	8.1	.4	1.4	.0	2.5		.0	76.5
TOT PCT	4.4	6.0	1.8	.0	.0	.0	.0	12.1	5.2	.5	2.1	.0	1.1		.1	79.0
TOT OBS:	1247															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	3.7	5.4	.3	.0	.0		9.8	12.1	9.4	9.6	9.7	10.5	12.7	8.8	7.7	12.5
NE	1.0	22.2	34.1	2.3	.0	.0		59.6	12.5	61.0	62.5	58.9	68.4	58.4	57.8	60.7	45.0
E	1.1	10.4	13.0	.9	.0	.0		25.3	11.8	25.6	22.1	27.8	13.2	24.2	25.5	25.5	20.0
SE	.4	1.3	.8	.1	.0	.0		2.6	8.6	2.2	2.5	2.1	.0	2.2	3.3	3.4	7.5
S	.2	.7	.1	.0	.0	.0		1.0	5.8	1.2	1.7	.2	.0	1.2	2.3	.5	2.5
SW	.0	.0	.1	.0	.0	.0		.1	15.0	.0	.0	.0	.0	.0	.0	.3	.0
W	.0	.1	.0	.0	.0	.0		.1	7.6	.0	.0	.4	.0	.0	.0	.2	.0
NW	.1	1.0	.2	.0	.0	.0		1.3	8.1	.7	.0	.9	7.9	1.3	1.7	1.3	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.0	1.7	.0	.0	.0	.7	.3	.0
TOT OBS	50	573	779	51	0	0	1453		12.1	303	60	283	19	319	151	298	20
TOT PCT	3.4	39.4	53.6	3.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	6.0	2.1	.0	.0		9.8	12.1	9.4	9.8	11.4	8.0
NE	7.2	39.8	12.3	.3	.0		59.6	12.5	61.2	59.5	58.2	59.7
E	4.6	16.5	3.7	.4	.0		25.3	11.8	25.0	26.9	24.6	25.2
SE	1.2	1.2	.2	.0	.0		2.6	8.6	2.3	2.0	2.6	3.6
S	.8	.2	.0	.0	.0		1.0	5.8	1.2	.2	1.5	.6
SW	.0	.1	.0	.0	.0		.1	15.0	.0	.0	.0	.3
W	*	.1	.0	.0	.0		.1	7.6	.0	.3	.0	.2
NW	.5	.7	.1	.0	.0		1.3	8.1	.6	1.3	1.4	2.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.3	.0	.2	.3
TOT OBS	237	938	267	11	0	1453		12.1	363	302	470	318
TOT PCT	16.3	64.6	18.4	.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1882-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	3.6	40.8	51.5	3.9	.0	.0	11.8	100.0	363
06&09	.0	2.3	40.1	54.0	3.6	.0	.0	12.5	100.0	302
12&15	.2	4.5	40.6	50.9	3.8	.0	.0	11.7	100.0	470
18&21	.3	1.9	35.5	59.7	2.5	.0	.0	12.5	100.0	318
TOT	3	47	573	779	51	0	0	12.1		1453
PCT	.2	3.2	39.4	53.6	3.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	2.0	3.8	3.4		5.7
NE	8.9	12.7	24.3	14.6		5.3
E	4.1	6.8	8.5	6.6		5.2
SE	.1	.2	.7	.7		6.4
S	.0	.0	.1	.0		7.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.5	*	.3	.4		4.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	116	171	296	202	785	5.3
TOT PCT	14.8	21.8	37.7	25.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.7	1.3	1.9	.5	.3	.0	.1	.0	5.7	
NE	.3	.9	1.6	7.7	8.5	3.9	1.8	.5	.1	.5	35.0	
E	.1	.0	.5	3.0	5.0	1.2	.7	.4	.4	.0	14.9	
SE	.2	.0	.3	.1	.6	*	.0	*	.0	.0	.5	
S	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.2	.3	.2	.0	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	4	7	25	97	126	44	22	7	4	4	445	785
TOT PCT	.5	.9	3.2	12.4	16.1	5.6	2.8	.9	.5	.5	56.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >2000	9.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
= OR >1000	21.3	25.4	26.1	26.1	26.3	26.3	26.3	26.3
= OR >600	30.1	37.2	38.5	38.5	38.6	38.6	38.6	38.6
= OR >300	31.6	40.3	41.7	41.7	41.8	41.8	41.8	41.8
= OR >150	31.9	41.2	42.6	42.6	42.7	42.7	42.7	42.7
= OR > 0	32.0	41.5	43.1	43.1	43.2	43.2	43.2	43.2
TOTAL	251	325	338	338	339	339	339	339

TOTAL NUMBER OF OBS: 784

PCT FREQ NH <5/8: 56.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.3	8.9	13.5	18.9	13.0	9.9	10.5	7.5	14.3	.2	840

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PERIOD: (PRIMARY) 1934-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.6	.7	*	.0	.0	.0	.0	.0	.0	1.3	
2<5	NO PCP	.1	.9	.6	.1	.1	.0	.0	.0	.0	.0	1.8	
	TOT %	.1	1.4	1.3	.2	.1	.0	.0	.0	.0	.0	3.1	
	PCP	.3	3.7	1.8	.1	.2	.0	.0	.0	.0	.0	6.2	
5<10	NO PCP	1.7	12.8	4.0	1.1	.2	.1	.0	.2	.0	.1	20.1	
	TOT %	2.1	16.5	5.8	1.2	.4	.1	.0	.2	.0	.1	26.4	
	PCP	.4	2.6	1.3	*	.0	.0	.0	.0	.0	.0	4.4	
10+	NO PCP	7.3	39.1	17.6	.7	.2	.0	.0	1.1	.0	.0	66.0	
	TOT %	7.7	41.8	18.9	.8	.2	.0	.0	1.1	.0	.0	70.4	
	TOT OBS												1218
	TOT PCT	9.9	59.7	26.1	2.2	.6	.1	.0	1.3	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.1	.2	*	.1	.0	.0	.0	.0	.0	.3	
2<5	4-10	.1	.7	.6	*	.0	.0	.0	.0	.0		1.4	
	11-21	.1	.7	.6	.1	.0	.0	.0	.0	.0		1.4	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.2	1.5	1.4	.2	.1	.0	.0	.0	.0	.0	3.3	
	0-3	.0	.1	.2	.2	.1	.0	.0	.0	.0	.1	.7	
5<10	4-10	.7	6.2	2.8	.6	.3	.0	.1	.2	.0		10.9	
	11-21	1.2	9.4	2.3	.3	*	.1	.0	.0	.0		13.4	
	22+	.0	.7	.4	.1	.0	.0	.0	.0	.0		1.2	
	TOT %	1.9	16.4	5.7	1.2	.4	.1	.1	.2	.0	.1	26.1	
	0-3	.4	.8	.7	.2	.1	.0	.0	*	.0	.2	2.3	
10+	4-10	2.9	15.1	7.3	.4	.0	.0	.0	.8	.0		26.6	
	11-21	4.0	24.3	10.3	.2	.1	.0	.0	.2	.0		39.0	
	22+	.2	1.5	.5	.0	.0	.0	.0	.0	.0		2.2	
	TOT %	7.5	41.7	18.8	.8	.2	.0	.0	1.0	.0	.2	70.1	
	TOT OBS												1317
	TOT PCT	9.6	59.7	26.2	2.3	.6	.1	.1	1.2	.0	.2	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1882-1973

AREA 0003 AMAZON DELTA
1.6N 46.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.3	8.2	15.3	4.4	2.2	1.6	.5	1.1	36.6	63.4	183
06&09	.5	.5	1.9	14.1	13.1	5.8	2.9	1.0	1.0	.5	41.3	58.7	206
12&15	.0	1.0	4.4	13.7	16.1	6.3	2.4	.0	.0	.0	43.9	56.1	205
18&21	1.3	1.7	2.6	10.8	16.9	4.8	3.0	.9	.4	.4	42.9	57.1	231
TOT	4	7	25	97	127	44	22	7	4	4	341	484	825
PCT	.5	.8	3.0	11.8	15.4	5.3	2.7	.8	.5	.5	41.3	58.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.3	5.2	26.8	67.4	325
06&09	.0	.0	.0	2.5	24.5	73.0	282
12&15	.2	.0	.2	3.3	29.1	67.2	430
18&21	.0	.3	.3	2.3	25.1	71.9	299
TOT	1	2	3	45	356	929	1336
PCT	.1	.1	.2	3.4	26.6	69.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.5	13.4	25.6	61.0	172
06&09	.5	3.1	19.3	24.5	56.3	192
12&15	.0	5.5	20.1	24.6	55.3	199
18&21	1.4	6.3	18.6	26.7	54.8	221
TOT	4	37	141	199	444	784
PCT	.5	4.7	18.0	25.4	56.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
90/94	.0	.0	.0	.1	.3	.4	.0	.0	8	.8
85/89	*.0*	*.0*	*.0*	*.0*	*1.1*	*2.3*	*1.2*	*.3*	*53*	*5.3*
80/84	.0	.0	.0	.1	.6	19.8	31.8	12.8	649	65.1
75/79	.0	.0	.0	.0	.0	1.7	14.3	11.3	273	27.4
70/74	.0	.0	.0	.0	.1	.0	.0	1.1	12	1.2
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	2	21	244	473	257	997	100.0
PCT	.0	.0	.0	.2	2.1	24.5	47.4	25.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.6	.2	.0	.0	.0	.0	.0	.0	.0
.4	*2.7*	*2.1*	*	*.1*	*.0*	*.0*	*.0*	*.0*	*.0*
5.5	40.6	17.3	.9	.3	.0	.0	.5	.0	.1
3.3	15.2	7.5	.9	.3	.1	.0	.2	.0	.0
.1	.7	.2	.1	.1	.0	.0	*	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
9.2	60.0	27.2	2.0	.8	.1	.0	.6	.0	.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	82	80	77	75	73	79.9	364
06&09	88	86	82	79	76	73	72	79.2	304
12&15	91	89	85	81	77	74	68	81.1	474
18&21	97	90	87	82	77	74	74	81.7	324
TOT	97	88	85	80	76	74	68	80.5	1466

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	18.8	53.2	28.0	86	250
06&09	.0	.0	.9	15.2	55.9	28.0	86	211
12&15	.0	.3	1.2	28.6	42.5	27.4	84	325
18&21	.0	.4	7.4	33.0	40.0	19.1	82	230
TOT	0	2	23	248	481	262	85	1016

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1882-1973

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1.6N 46.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.3	.0	4	.0	.4
7/8	.0	.0	.0	.0	.1	.5	.7	.0	13	.0	1.2
6	.0	.0	.0	.0	.0	.3	.0	.0	3	.0	.3
5	.0	.0	.0	.0	.6	.7	.1	.0	15	.0	1.4
4	.0	.0	.0	.2	.4	1.1	.0	.0	18	.0	1.7
3	.0	.0	.0	.0	1.1	1.5	.0	.0	28	.0	2.6
2	.0	.0	.0	.3	3.1	.7	.0	.0	44	.2	3.9
1	.0	.0	.0	.3	5.0	.6	.0	.0	62	.4	5.4
0	.0	.0	.1	4.7	11.6	.1	.0	.0	176	1.0	15.4
-1	.0	.0	.0	7.6	10.3	.0	.0	.0	191	.5	17.4
-2	.0	.0	.0	14.6	4.4	.0	.0	.0	203	.2	18.8
-3	.0	.0	.2	8.6	1.6	.0	.0	.0	111	.1	10.3
-4	.0	.0	.9	6.2	.9	.0	.0	.0	86	.0	8.1
-5	.0	.0	.6	3.5	.6	.0	.0	.0	49	.0	4.6
-6	.0	.0	1.4	2.0	.0	.0	.0	.0	36	.0	3.4
-7/-8	.0	.0	1.6	.3	.0	.0	.0	.0	20	.0	1.9
-9/-10	.0	.1	.4	.0	.0	.0	.0	.0	5	.0	.5
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	1	56	514	424	59	12	1	1068	25	1043
PCT	.1	.1	5.2	48.1	39.7	5.5	1.1	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.7	1.5	.0	.0	.0	2.2
5-6	.0	.3	2.2	.0	.0	.0	2.5
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.6	.7	.0	.0	7.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	8.4	3.6	.0	.0	.0	12.0
3-4	.0	7.0	14.1	.9	.0	.0	22.0
5-6	.0	2.3	18.2	1.2	.0	.0	21.6
7	.0	.8	9.0	.4	.0	.0	10.2
8-9	.0	.0	.8	.1	.0	.0	.9
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.2	45.8	2.6	.0	.0	67.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	2.8	1.6	.0	.0	.0	4.3
3-4	.0	1.7	5.7	.7	.0	.0	8.1
5-6	.0	1.0	4.5	.0	.0	.0	5.5
7	.0	.0	3.5	.4	.0	.0	3.9
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	15.6	1.5	.0	.0	24.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.8	.0	.0	.0	.8
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.2	.0	.0	.0	1.2

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA 1.6N 46.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	2.4	.0	.0	.0	.0	2.4	
1-2	.0	11.9	5.9	.0	.0	.0	17.8	
3-4	.0	9.5	21.7	1.6	.0	.0	32.8	
5-6	.0	3.6	24.9	1.2	.0	.0	29.6	
7	.0	.8	13.4	.8	.0	.0	15.0	
8-9	.0	.0	.8	1.2	.0	.0	2.0	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								253
TOT PCT	.0	28.1	67.2	4.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	8.7	14.7	9.3	3.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	4
6-7	.0	.3	8.2	12.5	8.7	3.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	244	5
8-9	.0	.0	1.5	4.9	6.7	2.5	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	6
10-11	.0	.1	.3	.8	.8	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
12-13	.0	.0	.1	1.0	.1	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
>13	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	.3	1.8	1.8	.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	3
TOTAL	13	79	192	215	147	50	18	7	0	0	0	0	0	0	0	0	0	0	0	721	5
PCT	1.8	11.0	26.6	29.8	20.4	6.9	2.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1880-1974

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	5.0	1.6	2.4	.0	.0	.0	.0	9.1	4.7	.4	.4	.0	1.6		.0	83.8
NE	4.7	4.0	1.2	.0	.0	.0	.0	9.7	5.1	.5	1.2	.0	.6		.0	83.1
E	6.8	6.4	3.4	.0	.0	.0	.0	16.0	7.4	.3	1.4	.0	.7		.0	74.3
SE	33.1	9.1	1.7	.0	.0	.0	.0	43.8	.8	.0	1.7	.0	.0		.0	53.7
S	.0	.0	28.6	.0	.0	.0	.0	28.6	21.4	.0	.0	.0	.0		.0	50.0
SW	.0	8.7	.0	.0	.0	.0	.0	8.7	2.2	.0	.0	.0	.0		.0	89.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3		.0	85.7
NW	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	14.3	.0	.0	.0	.0	.0	14.3	14.3	.0	.0	.0	.0		.0	71.4
TOT PCT	5.6	4.4	1.8	.0	.0	.0	.0	11.5	5.4	.4	1.1	.0	.8		.0	80.9
TOT OBS:	1397															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	4.2	3.9	1.2	.0	.0	.0	.0	9.1	3.0	.3	1.8	.0	.6		.0	85.5
06&09	4.6	2.6	2.6	.0	.0	.0	.0	9.5	6.6	1.3	.7	.0	.7		.0	81.3
12&15	7.6	4.9	2.0	.0	.0	.0	.0	14.4	3.6	.0	.9	.0	.7		.0	80.4
18&21	5.2	5.5	1.2	.0	.0	.0	.0	11.9	8.9	.3	.9	.0	1.2		.0	76.8
TOT PCT	5.6	4.3	1.8	.0	.0	.0	.0	11.5	5.3	.4	1.1	.0	.8		.0	80.9
TOT OBS:	1406															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	5.8	7.0	.1	.0	.0		13.3	11.8	16.7	10.6	13.9	18.8	11.0	14.3	11.6	14.1
NE	1.7	22.4	36.1	1.1	.0	.0		61.4	12.2	60.0	59.2	60.8	53.8	64.3	58.4	62.1	63.0
E	.1	8.3	11.2	.3	.0	.0		20.0	12.0	17.6	24.6	20.7	25.0	18.8	18.1	22.8	14.1
SE	.2	1.4	1.0	.1	.0	.0		2.6	11.0	2.6	2.1	2.9	2.5	3.3	3.2	1.7	.0
S	.0	.2	.1	.0	.0	.0		.3	9.0	.2	.0	.3	.0	.0	.7	.5	.0
SW	.5	.1	.1	.1	.0	.0		.8	6.5	.9	.0	.3	.0	.8	2.7	.4	4.3
W	.2	.2	.1	*	.0	.0		.6	8.1	.8	2.5	.0	.0	1.0	.7	.2	.0
NW	.1	.4	.2	*	.0	.0		.7	9.7	1.1	1.1	.4	.0	.6	.7	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.0	.0	.6	.0	.3	1.3	.3	4.3
TOT OBS	60	655	941	30	0	0	1686		11.9	350	71	334	20	382	149	357	23
TOT PCT	3.6	38.8	55.8	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	9.2	2.3	.0	.0		13.3	11.8	15.7	14.2	11.9	11.8
NE	9.0	41.4	11.0	.1	.0		61.4	12.2	59.9	60.4	62.7	62.2
E	2.3	14.7	3.0	.0	.0		20.0	12.0	18.8	21.0	18.6	22.3
SE	.4	1.7	.5	.0	.0		2.6	11.0	2.6	2.9	3.2	1.6
S	.2	.1	.0	.0	.0		.3	9.0	.2	.3	.2	.5
SW	.5	.2	.1	.0	.0		.8	6.5	.8	.3	1.3	.6
W	.3	.3	.0	*	.0		.6	8.1	1.1	.0	.9	.2
NW	.1	.4	.1	*	.0		.7	9.7	1.1	.4	.6	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.0	.6	.6	.5
TOT OBS	255	1145	284	2	0	1686		11.9	421	354	331	380
TOT PCT	15.1	67.9	16.8	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1880-1974

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.3	40.9	54.6	1.2	.0	.0	11.5	100.0	421
06&09	.6	.6	38.1	59.0	1.7	.0	.0	12.3	100.0	354
12&15	.6	5.8	40.9	50.1	2.6	.0	.0	11.4	100.0	531
18&21	.5	1.6	34.5	62.1	1.3	.0	.0	12.7	100.0	380
TOT	7	53	655	941	30	0	0	11.9		1686
PCT	.4	3.1	38.8	55.8	1.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	2.6	5.3	4.2		5.6
NE	7.2	15.1	25.7	15.9		5.4
E	2.8	3.1	7.4	5.4		5.6
SE	.1	.2	.8	.8		6.4
S	.0	.0	.0	.1		8.0
SW	.0	.0	.0	.2		8.0
W	.0	.1	.1	.1		5.3
NW	.1	.1	.5	*		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.1	.2	.1		6.0
TOT OBS	116	205	384	258	963	5.5
TOT PCT	12.0	21.3	39.9	26.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.9	2.1	1.6	.6	.2	.1	.0	.0	8.3	
NE	.4	.5	2.0	7.7	8.0	4.2	2.7	.3	.0	.1	37.9	
E	.6	.1	.7	2.2	3.8	1.3	.8	.0	.0	.0	9.2	
SE	.4	.1	*	.4	.1	.1	.0	.0	.0	.0	.6	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
NW	.0	.0	.1	*	.1	.1	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
TOT OBS	14	8	36	120	134	62	35	4	0	1	549	963
TOT PCT	1.5	.8	3.7	12.5	13.9	6.4	3.6	.4	.0	.1	57.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	.0	.1	.2	.2	.2	.2	.2	.2
≥ OR >5000	.4	.5	.7	.7	.7	.7	.7	.7
≥ OR >3500	2.9	3.9	4.1	4.1	4.2	4.2	4.2	4.2
≥ OR >2000	8.0	10.3	10.6	10.6	10.7	10.7	10.7	10.7
≥ OR >1000	17.6	22.8	24.0	24.2	24.5	24.5	24.5	24.5
≥ OR >600	26.7	34.6	36.5	36.7	36.9	36.9	36.9	36.9
≥ OR >300	29.3	38.0	40.0	40.3	40.6	40.6	40.6	40.6
≥ OR >150	29.9	38.9	40.8	41.1	41.5	41.5	41.5	41.5
≥ OR > 0	30.6	39.8	42.2	42.6	42.9	42.9	42.9	42.9
TOTAL	295	384	407	411	414	414	414	414

TOTAL NUMBER OF OBS: 965

PCT FREQ NH <5/8: 57.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.0	6.2	17.8	15.6	14.5	10.3	9.7	9.4	13.6 .9	1020

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1880-1974

AREA 0003 AMAZON DELTA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	PCP	.2	.5	.7	.3	.0	.0	.0	.0	.0	.0	1.7	
2<5	NO PCP	.2	.9	.3	.1	.0	.0	.1	.2	.0	.0	1.7	
	TOT %	.4	1.4	1.0	.4	.0	.0	.1	.2	.0	.0	3.5	
	PCP	.5	2.9	1.4	.6	.1	.0	.0	.1	.0	.1	5.8	
5<10	NO PCP	1.7	9.6	3.7	.3	.1	.2	.1	.2	.0	.1	16.2	
	TOT %	2.2	12.6	5.1	1.0	.2	.2	.1	.3	.0	.2	21.9	
	PCP	.5	2.3	.5	*	.0	.1	.0	.0	.0	.0	3.3	
10+	NO PCP	10.1	46.4	11.6	.8	.1	.5	.3	.3	.0	.3	70.4	
	TOT %	10.6	48.7	12.1	.8	.1	.6	.3	.3	.0	.3	73.7	
	TOT OBS												1386
	TOT PCT	13.2	63.3	18.5	2.2	.3	.8	.5	.7	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.4	.1	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.8	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.1	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.9	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.3	.4	.6	.3	.0	.0	.0	.1	.0		1.7	
	11-21	.1	.8	.5	.1	.0	.0	.1	*	.0		1.7	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.4	1.5	1.2	.4	.0	.0	.1	.2	.0	.0	3.7	
	0-3	.1	.4	*	*	.0	.2	.0	.0	.0	.2	.9	
5<10	4-10	1.0	5.1	1.9	.4	.1	*	.1	.2	.0		8.8	
	11-21	1.3	6.8	2.8	.4	.1	.0	.1	*	.0		11.4	
	22+	.0	.2	.2	.1	.0	.0	.1	*	.0		.5	
	TOT %	2.3	12.5	5.0	.9	.2	.2	.2	.3	.0	.2	21.7	
	0-3	.2	1.0	.1	.1	.0	.3	.2	.1	.0	.3	2.3	
10+	4-10	4.3	13.8	4.5	.3	.0	.1	.1	*	.0		25.2	
	11-21	5.6	29.9	8.1	.5	.1	*	.0	.2	.0		44.2	
	22+	.2	.8	.1	*	.0	.1	.0	.0	.0		1.2	
	TOT %	10.2	47.5	12.8	.9	.1	.6	.3	.3	.0	.3	72.9	
	TOT OBS												1477
	TOT PCT	13.2	62.6	19.2	2.2	.2	.8	.5	.7	.0	.5	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1880-1974

AREA 0003 AMAZON DELTA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.8	.5	3.2	11.7	13.5	5.9	2.3	.0	.0	.0	38.7	61.3	222
06&09	1.3	1.3	1.7	14.1	14.1	6.0	3.0	.9	.0	.0	42.3	57.7	234
12&15	2.3	.8	3.8	10.8	14.6	8.5	4.6	.8	.0	.4	46.5	53.5	260
18&21	.4	.7	5.5	12.1	12.1	4.8	4.0	.4	.0	.4	40.4	59.6	272
TOT	14	8	36	120	134	62	35	5	0	2	416	572	988
PCT	1.4	.8	3.6	12.1	13.6	6.3	3.5	.5	.0	.2	42.1	57.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.9	1.1	5.3	25.6	66.0	359
06&09	.0	.6	.3	3.1	20.1	75.9	319
12&15	.0	.2	1.1	4.5	21.7	72.6	470
18&21	.0	.6	1.2	2.1	19.2	76.9	338
TOT	0	12	14	57	323	1080	1486
PCT	.0	.8	.9	3.8	21.7	72.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.9	6.0	20.0	20.0	60.0	215
06&09	1.3	4.5	20.1	23.7	56.3	224
12&15	2.3	7.0	21.4	26.5	52.1	257
18&21	.4	7.1	20.8	20.8	58.4	269
TOT	14	60	199	220	546	965
PCT	1.5	6.2	20.6	22.8	56.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.3	.1	.0	7	.6
85/89	.0	.0	.0	.3	.8	2.4	1.1	.5	53	4.9
80/84	.0	.0	.0	.0	2.1	19.2	32.4	9.8	687	63.6
75/79	.0	.0	.0	.0	.1	2.9	11.9	15.4	328	30.3
70/74	.0	.0	.0	.0	.0	.0	.1	.4	5	.5
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	3	34	268	494	282	1081	100.0
PCT	.0	.0	.0	.3	3.1	24.8	45.7	26.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.3	.2	.0	.0	.1	.0	.0	.0	.0
.9	2.6	1.1	.2	.0	.1	.1	.0	.0	.0
7.7	43.6	10.4	.9	.1	.4	.1	.3	.0	.0
4.8	16.6	6.5	1.3	.2	.3	.3	.2	.0	.2
.2	.2	.0	.1	.0	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13.6	63.4	18.2	2.6	.2	.9	.4	.5	.0	.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	84	82	80	77	74	70	79.7	419
06&09	93	83	82	79	76	74	69	79.3	359
12&15	90	88	85	81	77	75	73	80.9	527
18&21	94	90	87	82	77	73	72	81.5	380
TOT	94	88	85	80	77	74	69	80.4	1685

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.9	18.8	47.4	32.0	86	266
06&09	.0	.0	2.6	17.3	51.5	28.6	85	231
12&15	.0	.0	2.3	26.6	46.1	24.9	84	349
18&21	.0	1.3	6.3	35.8	38.3	18.3	81	240
TOT	0	3	34	269	498	282	84	1086

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1880-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
7/8	.0	.0	.0	.0	.5	.3	.0	10	.0	.8
6	.0	.0	.1	.2	.4	.0	.0	9	.0	.7
5	.0	.0	.2	.2	.9	.2	.0	18	.0	1.5
4	.0	.0	.0	.4	.8	.1	.0	16	.0	1.3
3	.0	.0	.1	1.2	.5	.0	.0	21	.0	1.7
2	.0	.0	.1	3.9	.7	.0	.0	56	.1	4.6
1	.0	.0	.3	6.7	.6	.0	.0	92	.2	7.5
0	.0	.1	3.1	12.1	.1	.0	.0	186	.3	15.1
-1	.0	.0	7.7	9.1	.0	.0	.0	203	.3	16.5
-2	.0	.0	13.8	4.1	.0	.0	.0	216	.1	17.8
-3	.0	.0	9.9	1.5	.0	.0	.0	138	.0	11.4
-4	.0	.7	7.2	.6	.0	.0	.0	103	.0	8.5
-5	.0	.2	4.7	.0	.0	.0	.0	60	.1	4.9
-6	.0	.6	2.5	.0	.0	.0	.0	37	.0	3.1
-7/-8	.0	1.2	.8	.0	.0	.0	.0	25	.0	2.1
-9/-10	.0	.7	.0	.0	.0	.0	.0	8	.0	.7
-11/-13	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	43	611	484	54	10	1	1207	13	1194
PCT	.3	3.6	50.6	40.1	4.5	.8	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.9	1.0	.0	.0	.0	2.9
3-4	.0	1.8	4.4	.0	.0	.0	6.2
5-6	.0	1.0	4.8	.0	.0	.0	5.8
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	10.9	.0	.0	.0	15.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	3.8	7.8	.0	.0	.0	11.5
3-4	.3	6.1	12.8	.0	.0	.0	19.3
5-6	.0	2.9	15.1	.4	.0	.0	18.4
7	.0	.0	6.2	.0	.0	.0	6.2
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.9	42.9	.4	.0	.0	56.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	2.8	2.8	.0	.0	.0	5.6
3-4	.0	1.2	4.5	.0	.0	.0	5.7
5-6	.0	1.2	3.9	.6	.0	.0	5.7
7	.0	.0	3.6	.0	.0	.0	3.6
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	15.4	.6	.0	.0	22.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.3	.0	.0	.0	.8
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.7	.0	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1974

MARCH

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.3	.3	.0	.0	.0	.5	.0	.4	.1	.0	.0	.0	.5	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.8	
5-6	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.3	.3	.0	.0	.8	.0	.9	.4	.1	.0	.0	1.4	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	1.4	.0	.0	.0	.0	2.0	
1-2	.3	9.6	12.3	.0	.0	.0	22.2	
3-4	.3	9.9	22.5	.0	.0	.0	32.8	
5-6	.0	5.1	23.9	1.7	.0	.0	30.7	
7	.0	.0	10.6	.0	.0	.0	10.6	
8-9	.0	.0	1.0	.0	.0	.0	1.0	
10-11	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								293
TOT PCT	1.4	25.9	71.0	1.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	10.4	14.8	11.6	3.4	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	351	4
6-7	.0	.5	9.4	14.1	5.8	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	5
8-9	.0	.2	.5	4.5	5.2	1.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	6
10-11	.0	.5	.0	1.1	1.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
12-13	.0	.0	1.2	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
>13	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	.6	.8	1.9	1.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
TOTAL	15	103	231	277	146	40	12	5	1	0	0	0	0	0	0	0	0	0	0	830	5
PCT	1.8	12.4	27.8	33.4	17.6	4.8	1.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1888-1973

AREA 0003 AMAZON DELTA
1.7N 46.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	6.0	1.5	.7	.0	.0	.0	.0	8.2	3.1	.8	.3	.0	.4		.0	87.5
NE	4.1	4.1	1.5	.0	.0	.0	.0	9.4	2.9	.5	1.9	.0	1.4		.0	83.9
E	5.2	6.1	1.6	.0	.0	.0	.0	12.6	6.8	.2	1.7	.0	1.6		.0	77.1
SE	12.8	4.8	5.6	.0	.0	.0	.0	23.2	.0	.0	.0	.0	3.2		.0	73.6
S	17.9	.0	10.7	.0	.0	.0	.0	28.6	7.1	.0	.0	.0	.0		.0	64.3
SW	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
W	20.0	20.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0		.0	60.0
NW	4.7	9.3	4.7	.0	.0	.0	.0	18.6	18.6	.0	.0	.0	.0		.0	62.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.1	4.3	1.6	.0	.0	.0	.0	10.7	4.0	.5	1.5	.0	1.3		.0	82.1
TOT OBS:	1313															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	5.7	4.2	2.4	.0	.0	.0	.0	11.6	4.5	.6	1.5	.0	1.2		.0	80.7
06&09	4.2	4.2	2.3	.0	.0	.0	.0	10.6	6.1	1.5	1.5	.0	.4		.0	80.2
12&15	5.8	4.2	.5	.0	.0	.0	.0	10.4	2.3	.0	1.6	.0	1.9		.0	83.8
18&21	5.1	4.4	1.7	.0	.0	.0	.0	10.9	4.8	.0	1.4	.0	1.7		.0	81.3
TOT PCT	5.3	4.2	1.6	.0	.0	.0	.0	10.9	4.2	.5	1.5	.0	1.4		.0	81.7
TOT OBS:	1325															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.8	5.5	.4	.0	.0		13.4	10.9	13.0	9.9	13.3	18.5	13.9	12.9	13.8	11.1
NE	2.5	24.8	27.5	1.5	.0	.0		56.3	11.5	57.1	55.6	60.5	53.3	56.0	46.2	56.6	66.7
E	1.2	10.8	11.5	.7	.0	.0		24.2	11.4	23.8	21.6	20.1	17.4	26.2	29.6	25.1	8.3
SE	.3	1.6	.8	.0	.0	.0		2.7	8.7	1.7	7.8	3.4	6.5	2.4	5.6	.7	5.6
S	.1	.7	.3	.0	.0	.0		1.0	9.1	.9	.0	.8	4.3	.9	1.3	1.2	5.6
SW	.1	.2	.1	.0	.0	.0		.4	8.4	.3	1.7	.2	.0	.1	.0	.9	.0
W	.1	.1	.1	.1	.0	.0		.4	9.3	.4	.0	.2	.0	.1	1.3	.3	.0
NW	*	.4	.3	.0	.0	.0		.8	10.3	1.5	1.7	1.2	.0	.0	1.0	.3	2.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.2	1.7	.4	.0	.3	2.0	.9	.0
TOT OBS	89	692	703	40	0	0	1524		11.2	336	58	277	23	345	151	316	18
TOT PCT	5.8	45.4	46.1	2.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	8.5	1.8	*	.0		13.4	10.9	12.6	13.7	13.6	13.7
NE	8.9	38.9	8.4	.1	.0		56.3	11.5	56.9	59.9	53.0	57.2
E	4.4	16.8	3.0	.0	.0		24.2	11.4	23.5	19.9	27.3	24.2
SE	1.0	1.6	*	.0	.0		2.7	8.7	2.6	3.7	3.4	1.0
S	.4	.5	.1	.0	.0		1.0	9.1	.8	1.1	1.0	1.4
SW	.2	.2	*	.0	.0		.4	8.4	.5	.2	.1	.9
W	.2	*	.1	.0	.0		.4	9.3	.4	.2	.5	.3
NW	.2	.5	.1	.0	.0		.8	10.3	1.5	1.1	.3	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.3	.3	.8	.9
TOT OBS	293	1021	207	3	0	1524		11.2	394	300	496	334
TOT PCT	19.2	67.0	13.6	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1888-1973

AREA 0003 AMAZON DELTA
1.7N 46.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	3.8	48.0	43.9	3.0	.0	.0	11.0	100.0	394
06&09	.3	2.0	45.3	51.0	1.3	.0	.0	11.6	100.0	300
12&15	.8	8.1	46.0	41.9	3.2	.0	.0	10.6	100.0	496
18&21	.9	4.5	41.6	50.6	2.4	.0	.0	11.7	100.0	334
TOT	13	76	692	703	40	0	0	11.2		1524
PCT	.9	5.0	45.4	46.1	2.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	2.8	7.7	2.9		5.4
NE	8.7	13.1	25.9	10.8		5.2
E	3.0	5.5	9.9	4.7		5.2
SE	.0	.3	.2	.7		6.7
S	.0	.0	.2	.5		7.2
SW	.0	.0	.0	.1		8.0
W	.0	.0	.0	.1		8.0
NW	.2	.1	.2	.1		4.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.1	.0	.1		5.5
TOT OBS	118	185	373	169	845	5.2
TOT PCT	14.0	21.9	44.1	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.6	1.5	3.1	.8	.6	.0	.0	.0	8.6	
NE	.5	.3	1.2	5.7	8.9	3.0	1.4	.1	.0	.0	37.4	
E	.0	.2	.7	2.6	3.9	.9	.5	.1	.1	.1	13.9	
SE	.0	.0	*	.2	.4	.0	.0	.0	.0	.0	.5	
S	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.2	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	
NW	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
TOT OBS	7	5	21	85	141	43	23	2	1	1	516	845
TOT PCT	.8	.6	2.5	10.1	16.7	5.1	2.7	.2	.1	.1	61.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.2	.5	.5	.5	.5	.5	.5	.5
* OR >3500	2.2	3.0	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	6.0	7.8	8.2	8.2	8.2	8.2	8.2	8.2
* OR >1000	18.5	24.1	24.6	24.9	24.9	24.9	24.9	24.9
* OR >600	26.3	34.1	34.8	35.0	35.1	35.1	35.1	35.1
* OR >300	28.0	36.3	37.0	37.5	37.6	37.6	37.6	37.6
* OR >150	28.5	36.8	37.6	38.1	38.2	38.2	38.2	38.2
* OR > 0	28.9	37.3	38.1	38.8	38.9	38.9	38.9	38.9
TOTAL	244	315	322	328	329	329	329	329

TOTAL NUMBER OF OBS: 845

PCT FREQ NH <5/8: 61.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	6.3	17.6	17.8	14.9	9.9	12.5	7.4	10.0	.7	910

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1888-1973

AREA 0003 AMAZON DELTA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.3	
	PCP	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.5	
	PCP	.1	.3	.2	.1	.0	.0	.0	*	.0	.0	.8	
2<5	NO PCP	.2	.3	.2	.2	.0	.0	.0	.1	.0	.0	.9	
	TOT %	.3	.6	.4	.2	.0	.0	.0	.1	.0	.0	1.7	
	PCP	.6	2.8	1.8	.3	.1	.0	.1	.1	.0	.0	5.7	
5<10	NO PCP	2.3	9.6	4.3	.4	.4	.0	.2	.1	.0	.2	17.3	
	TOT %	2.9	12.3	6.0	.7	.5	.0	.2	.2	.0	.2	23.0	
	PCP	.3	1.9	.9	.1	.1	.1	.1	.0	.0	.0	3.4	
10+	NO PCP	10.2	41.2	16.8	1.3	.4	.2	.1	.5	.0	.5	71.1	
	TOT %	10.4	43.1	17.7	1.4	.5	.2	.2	.5	.0	.5	74.5	
	TOT OBS												1310
	TOT PCT	13.7	56.4	24.4	2.4	1.0	.2	.4	.8	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	.2	.0	.1	.0	.0	.0	.0	.0		.3	
	11-21	.1	.2	.1	.0	.0	.0	.0	.0	.0		.4	
	22+	.1	*	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.8	
	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.4	
2<5	4-10	.4	.5	.3	.1	.0	.1	.0	.1	.0		1.5	
	11-21	.1	.6	.2	.1	.0	.0	.0	.0	.0		.9	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.4	1.3	.5	.2	.0	.1	.0	.1	.0	.1	2.8	
	0-3	.3	.6	.1	.0	.0	.0	.1	.0	.0	.1	1.2	
5<10	4-10	1.7	5.4	2.4	.5	.3	.0	.1	.1	.0		10.5	
	11-21	.8	5.4	2.9	.3	.1	.0	.0	.1	.0		9.5	
	22+	.2	.8	.4	.0	.0	.0	.1	.0	.0		1.5	
	TOT %	3.0	12.2	5.9	.8	.5	.0	.2	.2	.0	.1	22.8	
	0-3	.4	1.3	1.1	.3	.1	.0	*	.1	.0	.5	3.7	
10+	4-10	4.6	18.3	7.7	.8	.4	.1	.1	.2	.0		32.0	
	11-21	4.8	21.9	8.7	.4	.1	.1	.1	.3	.0		36.5	
	22+	.2	.6	.3	.0	.0	.0	.0	.0	.0		1.1	
	TOT %	9.9	42.2	17.8	1.5	.6	.3	.2	.5	.0	.5	73.4	
	TOT OBS												1426
	TOT PCT	13.5	56.2	24.4	2.6	1.1	.4	.4	.8	.0	.7	100.0	

PERIOD: (PRIMARY) 1938-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	.5	1.4	12.4	16.7	1.9	2.4	.0	.0	.5	36.8	63.2	209
06&09	.5	1.0	2.5	10.6	18.6	3.5	4.5	.0	.0	.0	41.2	58.8	199
12&15	.4	.0	2.6	9.6	14.0	6.1	2.2	.4	.0	.0	35.5	64.5	228
18&21	1.3	.8	2.9	8.0	15.5	7.6	1.7	.4	.4	.0	38.7	61.3	238
TOT	7	5	21	88	141	43	23	2	1	1	332	542	874
PCT	.8	.6	2.4	10.1	16.1	4.9	2.6	.2	.1	.1	38.0	62.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.4	2.7	28.1	67.8	370
06&09	.0	.3	.3	3.8	22.0	73.4	286
12&15	.0	.6	.4	3.9	19.7	75.3	466
18&21	.0	.0	.9	1.3	21.5	76.3	316
TOT	0	4	11	43	327	1053	1438
PCT	.0	.3	.8	3.0	22.7	73.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.0	2.9	17.2	21.1	61.8	204
06&09	.5	4.2	16.3	26.8	56.8	190
12&15	.5	3.6	14.1	22.7	63.2	220
18&21	.9	4.8	13.4	26.0	60.6	231
TOT	6	33	128	204	513	845
PCT	.7	3.9	15.1	24.1	60.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.1	.3	.0	.0	14	1.4
85/89	.0	.0	.0	.1	.7	4.6	2.3	.0	79	7.7
80/84	.0	.0	.0	.1	1.3	21.7	35.5	8.3	689	66.9
75/79	.0	.0	.0	.1	.0	1.3	8.8	13.2	241	23.4
70/74	.0	.0	.0	.0	.0	.1	.2	.4	7	.7
TOTAL	0	0	0	3	31	287	483	226	1030	100.0
PCT	.0	.0	.0	.3	3.0	27.9	46.9	21.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.5	.6	.0	.0	.0	.0	.0	.0	.1
	.8	4.2	2.3	.2	.2	.0	.0	.0	.0	.0
	8.6	39.7	16.4	1.1	.4	.0	.1	.4	.0	.2
	4.1	11.8	5.4	.9	.3	.0	.1	.3	.0	.5
	.3	.1	.0	.0	.1	.0	.1	.1	.0	.0
	14.0	56.3	24.7	2.2	1.0	.0	.3	.7	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	84	82	80	76	74	73	80.1	388
06&09	85	84	82	80	76	74	73	79.5	301
12&15	92	91	88	81	77	75	73	81.7	498
18&21	90	88	86	82	77	74	73	81.9	328
TOT	92	89	85	81	77	74	73	80.9	1515

TABLE 16

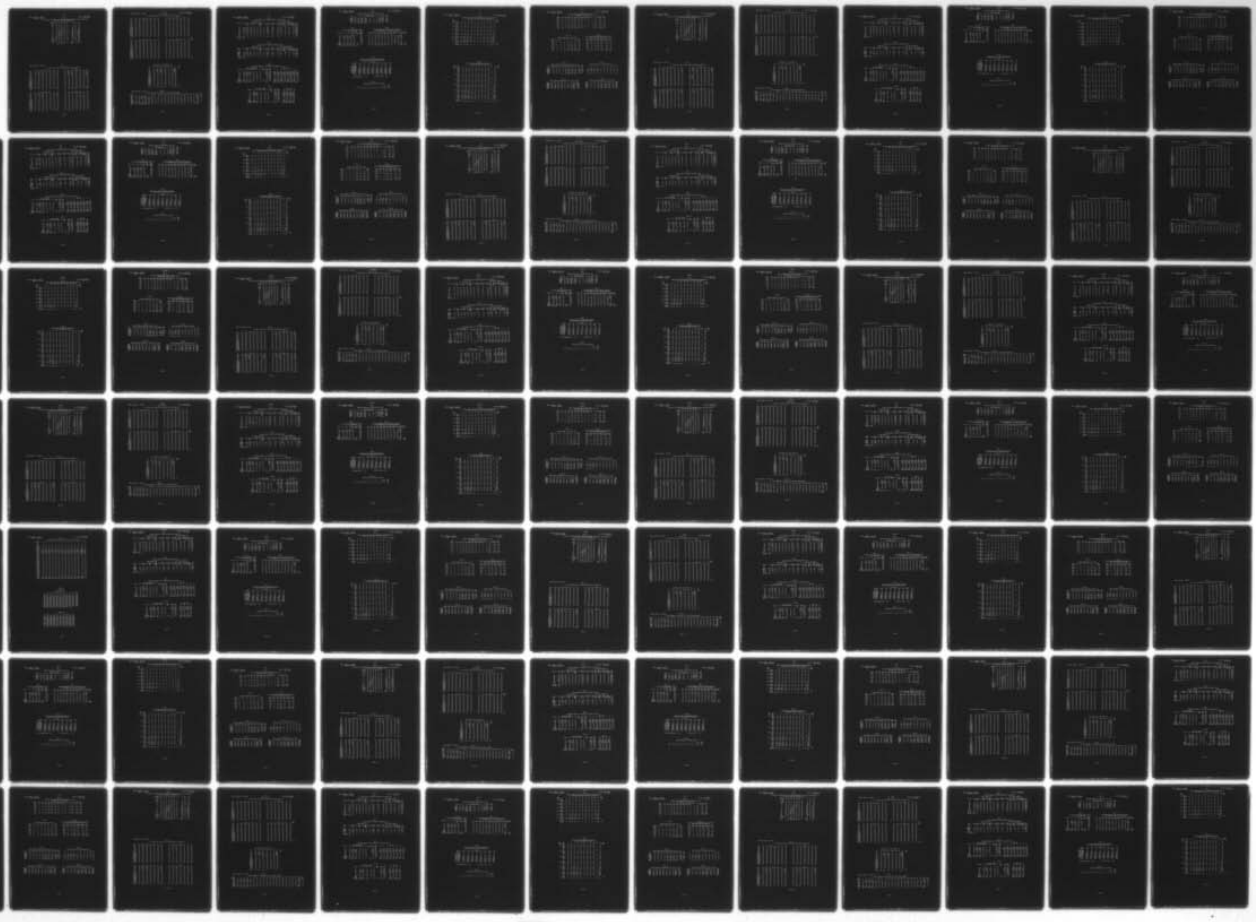
PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	18.8	49.8	31.4	86	271
06&09	.0	.0	.0	23.4	51.2	25.4	85	209
12&15	.0	.3	4.4	28.9	46.8	19.6	83	342
18&21	.0	.9	7.2	40.4	39.0	12.6	80	223
TOT	0	3	31	288	487	232	84	1041

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APRIL

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1888-1973

AREA 0003 AMAZON DELTA
1.7N 46.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.1	.2	.2	5	.0	.4
6	.0	.0	.0	.4	.0	4	.0	.4
5	.0	.0	.3	.4	.2	10	.0	.9
4	.0	.0	.4	1.4	.0	20	.0	1.8
3	.0	.0	.7	1.2	.1	22	.1	1.9
2	.0	.1	3.7	1.4	.0	59	.0	5.3
1	.0	.4	6.1	.6	.0	81	.3	6.9
0	.1	2.1	13.4	.4	.0	180	.5	15.5
-1	.0	3.8	11.0	.0	.0	166	.5	14.2
-2	.1	7.9	8.0	.0	.0	180	.1	15.9
-3	.0	7.6	4.1	.0	.0	131	.2	11.5
-4	.5	8.3	2.2	.0	.0	124	.0	11.0
-5	.7	4.4	.8	.0	.0	66	.0	5.9
-6	1.0	1.4	.1	.0	.0	28	.0	2.5
-7/-8	1.2	1.2	.4	.0	.0	32	.0	2.8
-9/-10	.7	.4	.0	.0	.0	12	.0	1.1
-11/-13	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	51	423	575	69	5	1123	19	1104
PCT	4.5	37.7	51.2	6.1	.4	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.6	.0	.0	.0	2.2
3-4	.0	1.2	6.1	.0	.0	.0	7.4
5-6	.0	.5	3.3	.3	.0	.0	4.1
7	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	11.1	.5	.0	.0	15.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.9	.4	.0	.0	.0	3.6
1-2	.0	5.4	2.3	.0	.0	.0	7.7
3-4	.0	6.6	15.5	2.1	.0	.0	24.1
5-6	.0	2.9	16.8	.4	.0	.0	20.2
7	.0	.0	4.1	1.1	.0	.0	5.2
8-9	.0	.1	.9	.3	.0	.0	1.3
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	17.8	40.3	4.0	.0	.0	62.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.6	.0	.0	.0	1.6
1-2	.0	1.9	2.6	.0	.0	.0	4.5
3-4	.0	1.9	5.4	.0	.0	.0	7.3
5-6	.0	.0	5.1	.3	.0	.0	5.4
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	13.9	.3	.0	.0	19.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.1	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973 APRIL AREA 0003 AMAZON DELTA 1.7N 46.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.3	.3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.7	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.0	.1	.7	.0	.0	.0	.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	4.1	1.0	.0	.0	.0	5.9	
1-2	.0	9.7	5.5	.0	.0	.0	15.2	
3-4	.0	10.0	27.6	2.1	.0	.0	39.7	
5-6	.0	3.8	25.5	1.0	.0	.0	30.3	
7	.0	.0	5.2	1.4	.0	.0	6.6	
8-9	.0	.3	1.4	.3	.0	.0	2.1	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	27.9	66.6	4.8	.0	.0	100.0	290

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	6.6	23.0	12.5	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	354	3
6-7	.0	.9	12.0	14.2	3.1	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	5
8-9	.0	.1	2.0	3.5	4.2	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
10-11	.0	.3	.1	.9	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
12-13	.0	.0	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
>13	.0	.0	.0	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	1.0	1.4	.9	1.5	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	4
TOTAL	20	73	303	264	81	37	3	1	0	0	0	0	0	0	0	0	0	0	0	782	4
PCT	2.6	9.3	38.7	33.8	10.4	4.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1938-1974
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	4.0	1.6	2.9	.0	.0	.0	.0	8.4	7.8	.0	.0	.0	3.5		.0	80.3
NE	3.8	2.3	1.4	.0	.0	.0	.0	7.5	3.8	.0	1.2	.2	.6		.0	86.8
E	5.2	3.5	2.8	.0	.0	.0	.0	11.5	5.6	.4	1.3	.0	.0		.0	81.4
SE	10.1	6.7	2.3	.0	.0	.0	.0	19.1	4.0	.8	.0	.0	.0		.0	76.1
S	16.5	5.1	.0	.0	.0	.0	.0	21.5	.0	.0	.0	.0	.0		.0	78.5
SW	14.3	7.1	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0	.0		.0	78.6
W	.0	.0	.0	.0	.0	.0	.0	.0	13.6	.0	.0	.0	.0		.0	86.4
NW	.0	11.4	.0	.0	.0	.0	.0	11.4	2.9	.0	.0	.0	.0		.0	85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0		.0	93.3
TOT PCT	5.1	3.3	2.1	.0	.0	.0	.0	10.5	4.8	.2	.9	.1	.5		.0	83.0
TOT OBS:	1280															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	5.8	3.3	2.1	.0	.0	.0	.0	11.2	4.8	.9	1.8	.3	.6		.0	80.6
06&09	5.1	3.4	3.1	.0	.0	.0	.0	11.6	5.8	.0	.7	.0	.3		.0	81.5
12&15	5.7	3.1	2.1	.0	.0	.0	.0	10.9	3.4	.0	.8	.0	.5		.0	84.4
18&21	4.9	3.0	2.0	.0	.0	.0	.0	9.9	5.3	.0	.3	.0	.7		.0	83.9
TOT PCT	5.4	3.2	2.3	.0	.0	.0	.0	10.9	4.7	.2	.9	.1	.5		.0	82.7
TOT OBS:	1310															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	4.7	2.9	*	.0	.0		8.5	9.5	10.3	7.1	8.7	4.5	7.3	8.7	8.5	2.3
NE	2.1	21.2	14.2	.4	.0	.0		37.7	10.4	34.4	44.2	39.2	46.6	39.8	27.9	38.0	56.8
E	1.2	20.8	16.4	.5	.0	.0		38.8	10.7	44.6	30.4	37.2	30.7	39.7	39.3	35.5	31.8
SE	.9	5.8	2.5	.0	.0	.0		9.2	8.7	6.7	8.3	7.4	13.6	10.2	13.6	11.2	6.8
S	.0	1.3	.4	.0	.0	.0		1.7	8.4	1.0	3.3	.9	4.5	.5	4.7	2.7	2.3
SW	.0	.5	.0	.0	.0	.0		.5	5.5	.4	1.7	.6	.0	.0	1.1	.6	.0
W	.0	.4	*	.0	.0	.0		.4	8.6	.3	.0	1.1	.0	.3	.0	.3	.0
NW	.3	.6	.4	.0	.0	.0		1.3	8.3	1.0	.0	1.0	.0	1.3	2.9	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.2	5.0	3.6	.0	.9	1.8	1.6	.0
TOT OBS	107	836	556	13	0	0	1512		10.0	339	60	306	22	334	112	317	22
TOT PCT	7.1	55.3	36.8	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	5.4	.6	.0	.0		8.5	9.5	9.8	8.5	7.6	8.1
NE	8.5	25.0	4.2	.0	.0		37.7	10.4	35.9	39.7	36.8	39.2
E	7.4	28.1	3.2	.0	.0		38.8	10.7	42.5	36.7	39.6	35.3
SE	3.3	5.5	.4	.0	.0		9.2	8.7	7.0	7.9	11.0	10.9
S	.9	.5	.2	.0	.0		1.7	8.4	1.4	1.1	1.6	2.7
SW	.5	*	.0	.0	.0		.5	5.5	.6	.8	.3	.5
W	.1	.3	.0	.0	.0		.4	8.6	.3	1.1	.2	.3
NW	.6	.6	.0	.0	.0		1.3	8.3	.8	.9	1.7	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.8	3.4	1.1	1.5
TOT OBS	389	991	132	0	0	1512		10.0	399	328	446	339
TOT PCT	25.7	65.5	8.7	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	5.3	56.9	35.3	.8	.0	.0	9.8	100.0	399
06&09	3.4	4.3	52.4	39.0	.9	.0	.0	10.3	100.0	328
12&15	1.1	6.1	57.2	34.5	1.1	.0	.0	9.8	100.0	446
18&21	1.5	5.0	53.7	39.2	.6	.0	.0	10.2	100.0	339
TOT	28	79	836	556	13	0	0	10.0		1512
PCT	1.9	5.2	55.3	36.8	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.9	2.7	2.8		5.2
NE	6.2	9.1	15.5	7.6		5.1
E	7.8	10.3	15.7	6.7		4.8
SE	.8	1.2	3.2	2.4		5.8
S	.1	.1	.4	.7		6.6
SW	.1	.0	.1	.2		6.7
W	.0	.1	.2	.3		6.6
NW	.2	.1	.5	.5		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.3	.5	.3		5.2
TOT OBS	161	219	368	203	951	5.1
TOT PCT	16.9	23.0	38.7	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.2	1.3	1.5	.2	.1	.0	.1	.0	5.5	
NE	.5	.3	.8	3.9	5.7	2.0	1.1	.0	.0	.1	23.9	
E	.3	.3	.8	3.4	3.5	3.0	1.5	.6	.0	.0	27.0	
SE	.5	.1	.1	.7	1.6	.4	.6	.1	.0	.0	3.5	
S	.1	.0	.2	.3	.3	.1	.0	.0	.0	.0	.4	
SW	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
W	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.8	
TOT OBS	16	7	20	95	129	56	31	6	1	1	589	951
TOT PCT	1.7	.7	2.1	10.0	13.6	5.9	3.3	.6	.1	.1	61.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
▪ OR >3000	.7	.8	.8	.8	.8	.8	.8	.8
▪ OR >1500	3.1	3.8	4.0	4.0	4.1	4.1	4.1	4.1
▪ OR >2000	7.8	9.5	9.7	9.8	9.9	9.9	9.9	9.9
▪ OR >1000	18.5	22.7	23.4	23.6	23.8	23.8	23.8	23.8
▪ OR >600	25.7	32.2	33.4	33.6	33.9	33.9	33.9	33.9
▪ OR >300	26.6	34.0	35.3	35.7	36.1	36.1	36.1	36.1
▪ OR >150	27.0	34.5	36.1	36.4	36.8	36.8	36.8	36.8
▪ OR > 0	27.3	35.3	37.3	38.0	38.5	38.5	38.5	38.5
TOTAL	262	339	358	364	369	369	369	369

TOTAL NUMBER OF OBS: 959

PCT FREQ NH <5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	6.5	18.3	19.4	12.5	8.5	8.9	9.0	11.3	1.3	1012

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	.3	.1	.2	.1	.0	.0	.0	.0	.0	.6	
	PCP	.1	.3	.7	.4	.0	.0	.0	.0	.0	.0	1.5	
2<5	NO PCP	.3	.2	.8	.1	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.4	.4	1.4	.5	.0	.0	.0	.0	.0	.0	2.8	
	PCP	.3	1.7	2.0	.6	.2	.1	.0	.2	.0	.0	4.9	
5<10	NO PCP	1.6	4.9	3.4	1.4	.4	.2	.1	.3	.0	.2	12.3	
	TOT %	1.8	6.5	5.4	2.0	.6	.3	.1	.4	.0	.2	17.2	
	PCP	.3	.6	1.8	.5	.1	*	.0	.0	.0	.0	3.3	
10+	NO PCP	6.2	29.3	30.9	5.9	.8	.3	.4	1.0	.0	1.0	75.7	
	TOT %	6.4	29.9	32.7	6.4	.9	.3	.4	1.0	.0	1.0	79.1	
	TOT OBS												1265
	TOT PCT	8.8	37.3	39.5	9.3	1.6	.6	.4	1.4	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	.3	.1	.1	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.3	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.4	.4	.9	.2	.0	.0	.0	.0	.0		2.0	
	11-21	.0	.3	.6	.4	.0	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.7	1.5	.6	.0	.0	.0	.0	.0	.0	3.4	
	0-3	.1	.5	.1	.3	.0	.0	.0	.1	.0	.1	1.2	
5<10	4-10	.6	3.7	3.4	1.3	.4	.2	.1	.2	.0		10.0	
	11-21	1.0	2.3	2.1	.3	.1	.0	.0	.1	.0		5.9	
	22+	*	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	TOT %	1.8	6.7	5.8	2.0	.6	.2	.1	.4	.0	.1	17.7	
	0-3	.5	1.2	.9	.6	.0	.0	.0	.2	.0	1.0	4.4	
10+	4-10	3.6	16.5	16.7	4.2	.8	.3	.3	.4	.0		42.8	
	11-21	2.2	11.5	14.3	1.7	.2	.0	.1	.3	.0		30.3	
	22+	.0	.1	.3	.0	.0	.0	.0	.0	.0		.4	
	TOT %	6.3	29.4	32.1	6.5	1.0	.3	.4	.9	.0	1.0	78.0	
	TOT OBS												1371
	TOT PCT	8.6	37.3	39.6	9.4	1.6	.5	.5	1.3	.0	1.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	.8	2.0	9.8	11.8	5.7	2.0	1.2	.0	.0	34.6	65.4	246
06&09	2.1	.9	.9	11.5	17.4	4.3	5.1	.4	.0	.4	43.0	57.0	235
12&15	.8	.4	2.0	7.9	13.9	5.6	3.2	.0	.4	.0	34.1	65.9	252
18&21	2.3	.8	3.5	10.2	10.9	7.8	2.3	.8	.0	.0	38.7	61.3	256
TOT	16	7	21	97	133	58	31	6	1	1	371	618	989
PCT	1.6	.7	2.1	9.8	13.4	5.9	3.1	.6	.1	.1	37.5	62.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.6	1.1	4.5	20.1	73.5	359
06&09	.0	.6	.6	3.2	18.5	77.1	314
12&15	.0	.2	.2	2.9	17.8	78.8	411
18&21	.0	.3	.9	3.1	17.9	77.7	318
TOT	1	6	10	48	260	1077	1402
PCT	.1	.4	.7	3.4	18.5	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	5.0	14.6	20.1	65.3	239
06&09	2.2	4.4	18.0	26.3	55.7	228
12&15	.8	3.3	12.8	22.6	64.6	243
18&21	2.4	6.8	17.7	22.1	60.2	249
TOT	16	47	151	218	590	959
PCT	1.7	4.9	15.7	22.7	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	.0	.1	4	.4
85/89	.0	.0	.0	.1	1.3	5.0	1.7	.4	85	8.5
80/84	.0	.0	.0	.1	1.1	18.2	37.8	9.2	664	66.3
75/79	.0	.0	.0	.1	.0	2.1	8.6	13.4	242	24.2
70/74	.0	.0	.0	.0	.0	.0	.0	.6	6	.6
TOTAL	0	0	0	4	26	253	481	237	1001	100.0
PCT	.0	.0	.0	.4	2.6	25.3	48.1	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
.5	2.0	4.9	.6	.1	.0	.0	.2	.0	.1
6.3	26.7	27.1	4.3	.5	*	.2	.7	.0	.6
2.4	8.6	8.4	2.4	.7	.3	.3	.6	.0	.4
.0	.2	.1	.2	.0	.0	.0	.0	.0	.0
9.2	37.8	40.7	7.6	1.3	.3	.4	1.5	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	83	80	77	76	75	80.3	398
06&09	86	84	82	80	76	73	72	79.5	332
12&15	90	88	86	82	77	75	73	81.4	446
18&21	92	89	87	82	77	74	72	82.0	337
TOT	92	88	86	81	76	75	72	80.8	1513

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.8	17.7	54.0	27.5	86	263
06&09	.0	.4	.4	20.7	51.5	26.9	85	227
12&15	.0	.3	1.7	28.7	47.6	21.7	83	286
18&21	.0	.8	7.5	34.0	38.2	19.5	81	241
TOT	0	4	26	258	488	243	84	1019

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1884-1974

AREA 0003 AMAZON DELTA
1.8N 46.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.2	2	.0	.2
7/8	.0	.0	.0	.0	.3	.2	5	.0	.4
6	.0	.0	.1	.0	.3	.2	6	.0	.5
5	.0	.0	.1	.1	.8	.2	13	.0	1.1
4	.0	.0	.0	.7	1.3	.0	23	.0	1.9
3	.0	.0	.0	.8	1.9	.0	33	.0	2.8
2	.0	.0	.3	2.3	1.8	.1	52	.0	4.3
1	.0	.0	.2	4.1	1.5	.0	69	.2	5.6
0	.0	.0	1.3	10.3	.4	.0	144	.2	11.8
-1	.0	.0	2.6	12.3	.1	.0	179	.3	14.7
-2	.0	.1	7.3	9.5	.1	.0	203	.3	16.6
-3	.0	.1	8.7	4.8	.0	.0	162	.1	13.4
-4	.0	.1	9.3	1.5	.0	.0	130	.0	10.8
-5	.0	.4	5.7	.3	.0	.0	77	.0	6.4
-6	.0	.9	2.3	.1	.0	.0	40	.0	3.3
-7/-8	.0	2.3	1.4	.0	.0	.0	44	.0	3.7
-9/-10	.0	.7	.2	.0	.0	.0	10	.0	.8
-11/-13	.2	.4	.0	.0	.0	.0	7	.0	.6
TOTAL	2	59	471	359	99	9	1199	12	1187
PCT	.2	4.9	39.3	46.6	8.3	.8	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	3.5	.2	.0	.0	.0	3.7
3-4	.0	.8	1.2	.0	.0	.0	2.1
5-6	.0	.8	2.0	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	3.5	.0	.0	.0	9.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.3	.0	.0	.0	2.2
1-2	.0	10.5	2.4	.0	.0	.0	12.9
3-4	.0	4.9	8.1	.0	.0	.0	13.0
5-6	.0	2.4	6.0	.0	.0	.0	8.4
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.7	18.2	.0	.0	.0	37.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7
1-2	.3	8.4	4.0	.0	.0	.0	12.7
3-4	.0	4.3	8.2	.0	.0	.0	12.5
5-6	.0	2.1	6.7	.3	.0	.0	9.1
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	17.5	19.9	.3	.0	.0	38.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	3.6	2.0	.0	.0	.0	5.5
5-6	.0	.3	.7	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	3.1	.0	.0	.0	10.2

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA
1.8N 46.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.2	.0	.0	.0	.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.4	1.1	.0	.0	.0	1.5	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	1.2	.0	.0	.0	2.0	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	6.9	.3	.0	.0	.0	8.3	
1-2	.3	25.7	6.6	.0	.0	.0	32.7	
3-4	.0	14.2	20.8	.0	.0	.0	35.0	
5-6	.0	5.6	15.5	.3	.0	.0	21.5	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	52.5	45.9	.3	.0	.0	100.0	303

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	16.9	26.4	10.0	1.9	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	3
6-7	.1	1.6	7.9	14.4	1.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	4
8-9	.0	.5	1.7	2.8	1.0	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	5
10-11	.0	.7	.5	.2	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
12-13	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	1.5	2.1	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	2
TOTAL	38	180	313	230	42	16	4	2	1	0	0	0	0	0	0	0	0	0	0	826	4
PCT	4.6	21.8	37.9	27.8	5.1	1.9	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1890-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.1	3.1	11.5	.0	.0	.0	.0	14.6	.0	.0	.0	.0	2.3		.0	83.1
NE	1.3	3.0	.1	.0	.0	.0	.0	4.4	2.1	1.2	1.2	.0	.1		.0	91.1
E	1.6	1.0	1.3	.0	.0	.0	.0	3.8	2.1	.2	2.5	.0	.2		.0	91.3
SE	1.5	1.3	.6	.0	.0	.0	.0	3.4	2.5	.4	3.2	.0	.0		.0	90.4
S	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0	.0	.0	.0		.0	91.1
SW	.0	26.7	.0	.0	.0	.0	.0	26.7	33.3	.0	.0	.0	.0		.0	40.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	18.6	.0	2.3	.0	.0	.0	.0	20.9	.0	.0	.0	.0	.0		.0	79.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.6	1.5	1.1	.0	.0	.0	.0	4.2	2.3	.4	2.2	.0	.2		.0	90.7
TOT OBS:	1237															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	1.7	.7	.0	.0	.0	.0	3.7	2.3	1.0	3.0	.0	.3		.0	89.6
06&09	1.8	2.1	1.8	.0	.0	.0	.0	5.6	3.2	.7	1.1	.0	.0		.0	89.5
12&15	1.9	1.6	1.1	.0	.0	.0	.0	4.4	1.6	.0	2.5	.0	.3		.0	91.3
18&21	1.3	1.3	1.0	.0	.0	.0	.0	3.7	2.3	.0	2.0	.0	.0		.0	92.0
TOT PCT	1.6	1.7	1.1	.0	.0	.0	.0	4.3	2.3	.4	2.2	.0	.2		.0	90.6
TOT OBS:	1248															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	2.0	.5	.0	.0	.0		3.3	6.7	3.1	2.4	4.0	.0	4.3	2.8	2.2	6.3
NE	.6	12.5	7.3	*	.0	.0		20.5	9.8	20.5	32.7	22.6	28.3	17.5	18.1	20.1	14.8
E	1.6	29.0	21.0	.2	.0	.0		51.8	10.2	51.7	46.4	47.9	54.3	53.6	59.7	51.6	52.3
SE	1.4	11.4	6.6	.0	.0	.0		19.4	9.9	18.8	15.3	20.1	17.4	20.3	15.7	21.1	20.3
S	.1	1.2	.7	.0	.0	.0		2.0	10.1	2.7	.0	2.3	.0	2.3	2.0	1.5	.0
SW	.1	.1	.1	.0	.0	.0		.3	8.1	.4	.0	.4	.0	.4	.0	.0	.0
W	*	.2	.0	.0	.0	.0		.2	7.5	.0	.0	.3	.0	.2	.0	.5	2.3
NW	.2	.7	.1	.0	.0	.0		.9	6.1	.7	1.6	1.5	.0	.9	.0	.6	3.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	2.0	1.6	1.0	.0	.6	1.6	2.4	.0
TOT OBS	92	823	523	3	0	0	1441		9.8	304	62	293	23	308	124	295	32
TOT PCT	6.4	57.1	36.3	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	1.6	.0	.0	.0		3.3	6.7	3.0	3.7	3.9	2.6
NE	5.1	14.3	1.2	.0	.0		20.5	9.8	22.5	23.0	17.7	19.6
E	11.1	37.5	3.2	.0	.0		51.8	10.2	50.8	48.3	55.3	51.7
SE	4.2	13.9	1.3	.0	.0		19.4	9.9	18.2	19.9	19.0	21.0
S	.4	1.5	.1	.0	.0		2.0	10.1	2.3	2.1	2.2	1.4
SW	.1	.2	.0	.0	.0		.3	8.1	.3	.4	.3	.0
W	.1	.2	.0	.0	.0		.2	7.5	.0	.2	.1	.7
NW	.5	.4	.0	.0	.0		.9	6.1	.9	1.3	.6	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.9	.9	.9	2.1
TOT OBS	355	1002	84	0	0	1441		9.8	366	316	432	327
TOT PCT	24.6	69.5	5.8	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1890-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	3.8	58.5	35.5	.3	.0	.0	9.8	100.0	366
06&09	.9	3.2	60.4	35.4	.0	.0	.0	9.9	100.0	316
12&15	.9	5.6	57.6	35.6	.2	.0	.0	9.5	100.0	432
18&21	2.1	7.0	51.7	38.8	.3	.0	.0	9.9	100.0	327
TOT	21	71	823	523	3	0	0	9.8		1441
PCT	1.5	4.9	57.1	36.3	.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.9	.8	.6		4.8
NE	5.2	6.6	4.9	2.9		4.2
E	15.3	17.3	14.3	5.5		4.0
SE	5.6	6.3	6.3	1.5		4.0
S	.4	1.0	.4	.2		3.7
SW	.1	*	.1	.1		5.3
W	.0	.2	.1	.0		4.1
NW	.1	.3	.5	.1		5.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.6	.1		3.7
TOT OBS	243	292	246	98	879	4.1
TOT PCT	27.6	33.2	28.0	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.1	.4	.2	.0	.0	.1	.0	1.7	
NE	.0	.0	.3	1.1	2.0	.7	.4	.1	.1	.0	15.0	
E	.3	.0	.8	3.4	4.1	2.1	.9	.0	.3	.0	40.5	
SE	.0	.0	.3	1.4	2.4	.5	.1	.1	.0	.0	14.7	
S	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	1.5	
SW	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	4	0	16	59	82	32	12	2	4	0	668	879
TOT PCT	.5	.0	1.8	6.7	9.3	3.6	1.4	.2	.5	.0	76.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	5.2	5.4	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	13.0	14.3	14.8	14.9	14.9	14.9	14.9	14.9
* OR >600	18.1	21.1	21.6	21.7	21.7	21.7	21.7	21.7
* OR >300	19.0	22.7	23.1	23.4	23.4	23.4	23.4	23.4
* OR >150	19.0	22.7	23.1	23.4	23.4	23.4	23.4	23.4
* OR > 0	19.1	23.0	23.6	23.8	23.8	23.8	23.8	23.8
TOTAL	169	204	209	211	211	211	211	211

TOTAL NUMBER OF OBS: 886

PCT FREQ NH <5/8: 76.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.2	13.2	22.7	20.8	13.6	6.8	7.0	3.9	6.7	.1	917

PERIOD: (PRIMARY) 1939-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.2	*	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	.0	.1	1.6	.2	.1	.0	.0	.0	.0	.0	2.0	
	TOT %	.0	.1	1.9	.4	.1	.0	.0	.0	.0	.0	2.4	
	PCP	.2	.4	1.0	.3	.0	.0	.0	.2	.0	.0	2.1	
5<10	NO PCP	.6	2.1	7.2	1.7	.5	.1	.1	.1	.0	.0	12.5	
	TOT %	.8	2.5	8.3	2.0	.5	.1	.1	.2	.0	.0	14.6	
	PCP	.1	.4	.5	.1	.0	.1	.0	*	.0	.0	1.2	
10+	NO PCP	1.7	17.3	41.2	17.4	1.7	.1	.1	.6	.0	1.2	81.3	
	TOT %	1.7	17.7	41.7	17.5	1.7	.2	.1	.6	.0	1.2	82.5	
	TOT OBS												1236
	TOT PCT	2.6	20.4	52.1	20.0	2.3	.3	.2	.9	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.3	.1	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.5	.1	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	
2<5	4-10	.0	.1	.9	.2	.1	.0	.0	.0	.0		1.3	
	11-21	.0	*	.7	.2	.0	.0	.0	.0	.0		1.0	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	1.8	.4	.1	.0	.0	.1	.0	.0	2.5	
	0-3	.1	.1	.2	.2	.0	.0	*	*	.0	.2	.7	
5<10	4-10	.6	.8	4.5	1.3	.3	*	.1	.1	.0		7.8	
	11-21	.1	1.8	3.3	.5	.1	.1	.0	.1	.0		5.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	2.7	7.9	1.9	.5	.1	.2	.2	.0	.2	14.4	
	0-3	.4	.6	1.4	1.3	.1	.1	.0	.1	.0	1.3	5.2	
10+	4-10	1.0	11.6	23.6	9.8	.9	.1	.1	.5	.0		47.6	
	11-21	.4	5.5	16.6	5.9	.7	*	.0	.0	.0		29.0	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	1.8	17.7	41.7	17.0	1.6	.2	.1	.6	.0	1.3	82.0	
	TOT OBS												1329
	TOT PCT	2.8	20.7	52.0	19.5	2.1	.3	.3	.9	.0	1.4	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1890-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.0	7.1	8.6	3.0	.0	.0	.5	.0	21.3	78.7	197
06&09	.9	.0	.9	7.9	9.2	1.8	2.2	.9	.4	.0	24.1	75.9	228
12&15	.0	.0	2.7	8.0	8.9	6.3	1.3	.0	.4	.0	27.7	72.3	224
18&21	.8	.0	1.6	3.9	9.4	3.1	1.6	.0	.4	.0	20.7	79.3	256
TOT	4	0	16	60	82	32	12	2	4	0	212	693	905
PCT	.4	.0	1.8	6.6	9.1	3.5	1.3	.2	.4	.0	23.4	76.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	.6	1.5	5.2	19.8	72.3	329
06&09	.0	.0	.3	1.0	11.6	87.1	303
12&15	.3	.0	.5	1.3	17.9	80.1	397
18&21	.0	.0	.3	2.6	7.7	89.4	311
TOT	3	2	9	33	195	1098	1340
PCT	.2	.1	.7	2.5	14.6	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.6	11.0	12.6	76.4	191
06&09	.9	1.8	10.9	14.9	74.2	221
12&15	.0	2.7	11.8	16.3	71.9	221
18&21	.8	2.4	8.3	13.4	78.3	253
TOT	4	19	92	127	667	886
PCT	.5	2.1	10.4	14.3	75.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.3	.5	.0	.1	11	1.2
85/89	.0	.0	.1	.2	3.1	7.7	2.5	.7	136	14.4
80/84	.0	.0	.1	.1	1.3	24.8	29.8	9.0	615	65.1
75/79	.0	.0	.0	.0	.0	1.8	9.6	7.5	179	18.9
70/74	.0	.0	.0	.0	.0	.1	.0	.3	4	.4
TOTAL	0	0	2	5	44	330	397	167	945	100.0
PCT	.0	.0	.2	.5	4.7	34.9	42.0	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.5	.5	.1	.0	.0	.0	.0	.0
.4	1.9	7.7	3.9	.3	.0	.0	.1	.0	.2
2.1	12.9	35.3	12.3	1.2	.1	.2	.3	.0	.7
.5	3.6	8.9	4.2	.5	.2	.0	.7	.0	.2
.0	.1	.1	.1	.0	.1	.0	.0	.0	.0
3.1	18.5	52.5	21.0	2.0	.4	.2	1.1	.0	1.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	84	81	77	75	74	80.5	355
06&09	90	84	82	80	77	74	73	79.6	317
12&15	94	90	86	82	78	76	74	82.2	430
18&21	94	90	89	83	78	76	73	83.4	326
TOT	94	89	87	81	77	75	73	81.5	1428

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	.9	27.8	50.4	20.5	84	234
06&09	.0	.5	.5	19.5	57.3	22.3	85	220
12&15	.0	1.1	2.8	37.0	37.7	21.5	82	284
18&21	.0	.9	15.3	54.6	24.1	5.1	76	216
TOT	0	7	44	331	403	169	82	954

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1890-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	# FOG	#D FOG
11/13	.0	.0	.0	.1	.0	.2	3	.0	.3
9/10	.0	.0	.0	.0	.3	.0	3	.0	.3
7/8	.0	.0	.0	.6	.7	.1	14	.0	1.3
6	.0	.0	.1	1.5	.5	.0	22	.0	2.1
5	.0	.1	.3	2.4	.4	.0	34	.0	3.2
4	.0	.0	1.3	1.6	.1	.0	32	.0	3.0
3	.1	.1	1.9	2.8	.0	.0	52	.0	4.9
2	.0	.0	4.1	1.2	.0	.0	57	.3	5.1
1	.0	.3	6.3	.8	.0	.0	79	.4	7.0
0	.0	1.6	12.6	.7	.0	.0	159	.8	14.0
-1	.0	4.5	8.5	.4	.0	.0	143	.7	12.7
-2	.0	9.2	6.6	.0	.0	.0	169	.3	15.5
-3	.1	7.0	2.8	.0	.0	.0	106	.1	9.8
-4	.1	7.1	2.0	.0	.0	.0	98	.0	9.2
-5	.1	3.8	.4	.0	.0	.0	46	.0	4.3
-6	.7	1.4	.2	.0	.0	.0	25	.0	2.3
-7/-8	1.1	1.0	.0	.0	.0	.0	23	.0	2.2
-9/-10	.3	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	27	386	503	129	20	3	1068	27	1041
PCT	2.5	36.1	47.1	12.1	1.9	.3	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.6	.2	.0	.0	.0	.9
3-4	.0	.6	.2	.0	.0	.0	.8
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.5	.5	.0	.0	.0	2.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	3.3	2.3	.0	.0	.0	5.6
3-4	.3	1.6	1.8	.0	.0	.0	3.7
5-6	.0	.2	1.3	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.2	5.3	.0	.0	.0	12.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.9	.0	.0	.0	.0	3.2
1-2	.3	11.2	7.4	.0	.0	.0	18.9
3-4	.0	7.6	9.7	.0	.0	.0	17.3
5-6	.0	3.1	6.7	.0	.0	.0	9.8
7	.0	.0	1.3	.3	.0	.0	1.6
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	23.8	26.0	.3	.0	.0	51.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.7
1-2	.6	8.6	2.8	.0	.0	.0	12.0
3-4	.0	4.1	3.3	.0	.0	.0	7.4
5-6	.0	.6	2.6	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	14.3	8.9	.0	.0	.0	24.4

PERIOD: (OVER-ALL) 1963-1979

JUNE

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA
1.7N 46.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.7	.6	.0	.0	.0	1.3
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.6	.0	.0	.0	3.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.4	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.4	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.0	.0	.0	.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.3	.0	.0	.0	.0	.6	
1-2	.0	.6	.0	.0	.0	.0	.6	
3-4	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.3	.0	.0	.0	.0	1.6	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	6.0	.0	.0	.0	.0	11.7	
1-2	.9	23.6	13.6	.0	.0	.0	40.1	
3-4	.3	14.5	15.5	.0	.0	.0	30.3	
5-6	.0	4.1	10.7	.0	.0	.0	14.8	
7	.0	.0	1.3	.3	.0	.0	1.6	
8-9	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.3	.0	.0	.0	.0	.3	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	50.5	42.3	.3	.0	.0	100.0	317

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	17.5	24.4	6.7	2.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	451	3
6-7	.4	3.1	11.4	8.3	1.5	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
8-9	.0	.3	1.4	2.3	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	5
10-11	.0	.1	.1	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
12-13	.0	.0	.8	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
>13	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
INDET	2.6	1.3	2.2	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	2
TOTAL	69	173	316	152	48	16	3	1	1	0	0	0	0	0	0	0	0	0	0	779	3
PCT	8.9	22.2	40.6	19.5	6.2	2.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1876-1973

AREA 0003 AMAZON DELTA
1.7N 46.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0		.0	96.6
NE	.2	3.5	1.4	.0	.0	.0	.0	5.1	1.4	3.2	6.0	.0	.0		.0	84.3
E	.4	1.3	.1	.0	.0	.0	.0	1.7	1.0	.6	3.0	.0	.0		.1	93.5
SE	.9	2.1	.4	.0	.0	.0	.0	3.3	1.7	.4	.7	.0	.0		.0	93.9
S	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0		.0	96.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0		.0	96.0
W	18.6	9.3	.0	.0	.0	.0	.0	27.9	.0	.0	25.6	.0	.0		.0	46.5
NW	7.6	.0	.0	.0	.0	.0	.0	7.6	.0	.0	.0	.0	6.1		.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.8	1.7	.3	.0	.0	.0	.0	2.8	1.1	.8	2.8	.0	.1		.1	92.4
TOT OBS:	1331															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0003	.6	3.1	.3	.0	.0	.0	.0	4.0	.9	.9	3.1	.0	.0		.0	91.1
0609	1.3	1.3	.3	.0	.0	.0	.0	3.0	2.3	2.3	2.3	.0	.3		.0	89.8
1215	.8	1.5	.3	.0	.0	.0	.0	2.3	.8	.0	3.5	.0	.0		.0	93.4
1821	.6	.9	.3	.0	.0	.0	.0	1.9	.6	.0	1.9	.0	.0		.3	95.3
TOT PCT	.8	1.7	.3	.0	.0	.0	.0	2.8	1.1	.7	2.8	.0	.1		.1	92.5
TOT OBS:	1342															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.1	.4	.0	.0	.0		1.8	7.3	2.9	2.5	1.9	.0	.5	1.6	1.5	3.6
NE	1.0	6.9	2.8	.0	.0	.0		10.7	9.0	9.3	12.8	12.9	1.8	11.2	13.9	7.4	22.3
E	2.6	29.1	24.4	.4	.0	.0		56.4	10.6	56.8	59.1	55.4	54.5	61.0	56.2	52.4	53.6
SE	1.0	12.8	10.5	.1	.0	.0		24.5	10.6	23.9	21.9	23.2	23.2	22.5	21.7	31.3	13.4
S	.4	1.6	.5	.0	.0	.0		2.5	7.8	3.3	1.3	1.8	6.3	1.9	2.4	3.1	.0
SW	.1	.2	.2	.0	.0	.0		.5	7.9	.4	.0	.5	.9	.6	.7	.7	.0
W	.1	.6	.5	.0	.0	.0		1.2	10.0	1.1	2.2	1.5	8.9	.3	2.9	.3	.0
NW	.3	.6	.2	.0	.0	.0		1.2	7.3	.9	.3	1.4	4.5	.3	.5	2.0	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.4	.0	1.5	.0	1.8	.0	1.2	3.6
TOT OBS	114	848	635	8	0	0	1605		10.1	345	80	326	28	335	137	326	28
TOT PCT	7.1	52.8	39.6	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	.7	.1	.0	.0		1.8	7.3	2.8	1.8	.8	1.7
NE	3.1	6.9	.6	.0	.0		10.7	9.0	9.9	12.0	12.0	8.6
E	12.1	38.3	6.0	.0	.0		56.4	10.6	57.2	55.3	59.6	52.5
SE	4.9	17.4	2.1	.0	.0		24.5	10.6	23.5	23.2	22.2	29.9
S	1.1	1.3	*	.0	.0		2.5	7.8	2.9	2.1	2.0	2.9
SW	.3	.2	*	.0	.0		.5	7.9	.3	.5	.6	.6
W	.3	.7	.1	.0	.0		1.2	10.0	1.3	2.0	1.1	.3
NW	.6	.6	.0	.0	.0		1.2	7.3	.8	1.6	.4	2.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.2	1.4	1.3	1.4
TOT OBS	397	1063	145	0	0	1605		10.1	425	354	472	354
TOT PCT	24.7	66.2	9.0	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1876-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	6.8	49.4	41.9	.7	.0	.0	10.2	100.0	425
06&09	1.4	5.9	52.0	40.1	.6	.0	.0	10.2	100.0	354
12&15	1.3	5.5	56.4	36.2	.6	.0	.0	9.8	100.0	472
18&21	1.4	4.8	53.1	40.7	.0	.0	.0	10.3	100.0	354
TOT	21	93	848	635	8	0	0	10.1		1605
PCT	1.3	5.8	52.8	39.6	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.7	.7	.1		4.1
NE	3.1	2.9	2.5	.9		3.7
E	23.3	16.5	13.3	3.1		3.3
SE	7.5	8.2	7.4	2.0		3.8
S	.4	.9	1.0	.3		4.5
SW	.1	.0	.4	*		4.8
W	.1	.2	.4	.3		5.5
NW	.4	.4	.4	.3		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.6	.4		4.5
TOT OBS	367	303	270	75	1015	3.6
TOT PCT	36.2	29.9	26.6	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	1.6	
NE	.2	.0	.0	.3	.5	.7	.2	.0	.1	.0	7.5	
E	.3	.0	.1	2.2	3.3	2.7	.9	.2	.2	.1	46.2	
SE	*	.0	.2	1.6	1.7	1.3	.2	.2	.0	.0	19.9	
S	.0	.0	.0	.5	.2	.3	.0	.0	.0	.0	1.6	
SW	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.4	
W	.1	.1	.0	.1	.2	.1	.0	.0	.0	.0	.4	
NW	.0	*	.1	.0	.2	.1	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.1	.3	.1	.0	.0	.0	.0	1.2	
TOT OBS	6	2	6	49	67	54	14	4	3	1	809	1015
TOT PCT	.6	.2	.6	4.8	6.6	5.3	1.4	.4	.3	.1	79.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.8	.8	.8	.8	.8	.9	.9	.9
* OR >3500	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3
* OR >2000	5.9	6.5	7.5	7.5	7.5	7.6	7.6	7.6
* OR >1000	11.5	12.9	14.0	14.0	14.0	14.1	14.1	14.1
* OR >600	15.7	17.8	18.8	18.8	18.8	18.9	18.9	18.9
* OR >300	16.0	18.1	19.3	19.3	19.3	19.4	19.4	19.4
* OR >150	16.0	18.2	19.4	19.4	19.4	19.5	19.5	19.5
* OR > 0	16.0	18.3	19.7	20.0	20.0	20.1	20.1	20.1
TOTAL	162	186	200	203	203	204	204	204

TOTAL NUMBER OF OBS: 1014

PCT FREQ NH <5/8: 79.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	17.4	21.0	19.8	11.0	6.8	5.3	3.8	3.6	.6	1072

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PERIOD: (PRIMARY) 1937-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.1	.1	.0	.0	.0	.0	.2	.1	.0	.0	.4	
2<5	NO PCP	.0	.3	1.4	.6	.1	*	.2	.1	.0	.1	2.8	
	TOT %	.1	.4	1.4	.6	.1	*	.4	.2	.0	.1	3.2	
	PCP	.0	.2	.6	.4	.0	.0	.1	.0	.0	.0	1.3	
5<10	NO PCP	.2	2.0	7.2	2.3	.3	.3	.3	.1	.0	.2	12.9	
	TOT %	.2	2.2	7.8	2.8	.3	.3	.4	.1	.0	.2	14.2	
	PCP	.0	.3	.4	.3	.1	.0	.0	.0	.0	.0	1.1	
10+	NO PCP	1.3	7.8	47.7	20.4	1.8	.2	.1	.9	.0	1.3	81.5	
	TOT %	1.3	8.1	48.1	20.6	1.9	.2	.1	.9	.0	1.3	82.5	
	TOT OBS												1327
	TOT PCT	1.6	10.7	57.3	24.1	2.2	.5	.8	1.2	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.1	.1	*	.1	.0	.1	.0	.0		.3	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.1	.1	.0	.1	.0	.0	.0	.6	
	0-3	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.3	
2<5	4-10	.1	.3	.7	.4	.1	.0	.1	.2	.0		1.8	
	11-21	.0	.1	.5	.2	.0	*	.1	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	1.3	.6	.1	*	.3	.2	.0	.1	2.9	
	0-3	*	.1	*	*	.0	.0	.0	*	.0	.1	.4	
5<10	4-10	.1	1.0	3.9	1.1	.2	.1	.2	.1	.0		6.7	
	11-21	.1	.9	3.8	1.4	.0	.1	.1	.0	.0		6.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	2.0	7.7	2.6	.2	.3	.3	.1	.0	.1	13.6	
	0-3	.3	.9	2.3	.8	.2	.1	.0	.3	.0	1.2	6.1	
10+	4-10	.7	5.4	24.6	11.3	1.2	*	.0	.3	.0		43.6	
	11-21	.3	1.8	20.6	9.1	.5	.0	.1	.2	.0		32.4	
	22+	.0	.0	.4	.1	.0	.0	.0	.0	.0		.5	
	TOT %	1.3	8.0	47.9	21.3	2.0	.1	.1	.9	.0	1.2	82.6	
	TOT OBS												1468
	TOT PCT	1.5	10.6	57.2	24.5	2.4	.4	.8	1.1	.0	1.4	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1876-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.0	.4	6.4	5.2	4.0	1.2	1.2	.4	.0	19.5	80.5	251
06&09	1.5	.4	.8	4.2	8.4	6.1	.4	.0	.4	.4	22.6	77.4	261
12&15	.0	.4	.0	4.8	7.0	6.2	1.5	.4	.4	.0	20.5	79.5	273
18&21	.0	.0	1.1	3.2	4.6	4.6	2.1	.4	.0	.0	16.1	83.9	280
TOT	6	2	6	49	67	56	14	5	3	1	209	856	1065
PCT	.6	.2	.6	4.6	6.3	5.3	1.3	.5	.3	.1	19.6	80.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.0	1.8	3.2	14.0	80.7	379
06&09	.0	.0	.6	3.4	11.0	85.1	328
12&15	.0	.2	.0	2.8	17.1	80.0	434
18&21	.3	.0	.0	3.0	11.2	85.5	338
TOT	2	1	9	45	201	1221	1479
PCT	.1	.1	.6	3.0	13.6	82.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	1.7	10.9	11.3	77.8	239
06&09	1.6	2.0	9.8	15.5	74.7	245
12&15	.0	.4	10.0	14.2	75.9	261
18&21	.0	1.1	7.4	10.8	81.8	269
TOT	6	13	96	131	787	1014
PCT	.6	1.3	9.5	12.9	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.9	.0	.1	.1	13	1.4
85/89	.0	.0	.0	.0	3.6	3.2	1.8	.6	88	9.2
80/84	.0	.0	.0	.1	3.5	32.4	26.0	7.9	666	69.7
75/79	.0	.0	.0	.0	.1	3.2	10.7	5.5	187	19.6
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	3	77	371	368	136	955	100.0
PCT	.0	.0	.0	.3	8.1	38.8	38.5	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0
.1	.5	5.5	2.5	.3	.0	.1	.0	.0	.2
1.2	6.9	42.1	16.4	1.3	.2	.1	.2	.0	1.4
.2	2.1	11.6	4.2	.4	*	.2	.6	.0	.2
.1	.0	.0	.0	.0	.0	.0	*	.0	.0
1.5	9.5	60.3	23.5	2.0	.2	.4	.8	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	80	78	75	75	80.5	412
06&09	88	84	82	80	77	75	74	79.7	348
12&15	93	88	86	82	78	76	75	81.9	456
18&21	96	93	90	83	79	77	73	83.6	348
TOT	96	90	86	81	78	76	73	81.4	1564

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.2	34.7	44.5	19.6	83	245
06&09	.0	.0	1.8	32.3	48.9	17.0	83	223
12&15	.0	.0	7.3	43.4	35.4	13.9	81	274
18&21	.0	1.4	23.1	44.8	24.9	5.9	76	221
TOT	0	3	78	375	370	137	81	963

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1876-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
14/16	.0	.0	.0	.0	.1	.2	3	.0	.3
11/13	.0	.0	.0	.0	.2	.3	5	.0	.5
9/10	.0	.0	.1	.0	.9	.0	11	.0	1.0
7/8	.0	.0	.0	.8	.5	.1	15	.0	1.4
6	.0	.0	.1	1.4	.0	.0	16	.0	1.5
5	.0	.0	.3	1.9	.0	.0	24	.0	2.2
4	.0	.0	1.3	2.5	.0	.0	41	.0	3.8
3	.0	.2	3.4	1.7	.0	.0	58	.1	5.2
2	.0	.5	6.3	.7	.0	.0	82	.3	7.3
1	.0	.5	8.1	.3	.0	.0	96	.5	8.4
0	.0	5.7	12.2	.2	.0	.0	197	1.0	17.1
-1	.1	7.3	8.5	.0	.0	.0	173	1.1	14.8
-2	.2	11.7	4.0	.2	.0	.0	175	.1	16.0
-3	.2	5.9	1.4	.1	.0	.0	82	.0	7.5
-4	.0	4.2	.9	.0	.0	.0	56	.0	5.1
-5	.3	2.3	.3	.0	.0	.0	31	.0	2.8
-6	.6	.9	.0	.0	.0	.0	16	.0	1.5
-7/-8	.2	.4	.0	.0	.0	.0	6	.0	.6
-9/-10	.1	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	17	430	511	107	18	6	1089	33	1056
PCT	1.6	39.5	46.9	9.8	1.7	.6	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.6	.0	.0	.0	1.7
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.6	.0	.0	.0	2.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.1	2.6	.8	.0	.0	.0	3.5
3-4	.0	1.5	1.0	.0	.0	.0	2.4
5-6	.0	.3	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	1.9	.0	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.3	.0	.0	.0	.0	3.6
1-2	1.0	8.5	5.4	.0	.0	.0	15.0
3-4	.0	7.7	11.6	.0	.0	.0	19.2
5-6	.0	1.3	7.1	.0	.0	.0	8.4
7	.0	.0	2.0	.0	.0	.0	2.0
8-9	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	19.9	26.3	.0	.0	.0	48.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.8	.0	.0	.0	3.3
1-2	.0	8.6	2.1	.0	.0	.0	10.7
3-4	.0	4.3	6.4	.0	.0	.0	10.7
5-6	.0	.9	4.5	.0	.0	.0	5.4
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	16.1	15.2	.0	.0	.0	31.6

PERIOD: (OVER-ALL) 1963-1973

AREA 0003 AMAZON DELTA
1.7N 46.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	.0	.0	.0	.0	2.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.6	.0	.0	.0	.8
3-4	.0	.6	.1	.0	.0	.0	.6
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.9	.0	.0	.0	1.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.6	.8	.0	.0	.0	1.3
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.7	.0	.0	.0	2.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	.9	.1	.0	.0	.0	1.0	
3-4	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.0	.2	.0	.0	.0	1.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	5.0	.8	.0	.0	.0	10.8	
1-2	1.1	22.8	10.0	.0	.0	.0	33.9	
3-4	.3	15.6	19.7	.0	.0	.0	35.6	
5-6	.0	3.3	11.9	.0	.0	.0	15.3	
7	.0	.0	3.6	.0	.0	.0	3.6	
8-9	.0	.3	.3	.0	.0	.0	.6	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	46.9	46.7	.0	.0	.0	100.0	360

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	20.6	25.7	5.9	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	3
6-7	.1	2.0	11.0	10.7	2.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	4
8-9	.2	.8	1.5	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
10-11	.0	.4	.8	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
12-13	.0	.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	2.3	1.3	1.6	1.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
TOTAL	54	214	357	168	46	12	2	0	0	0	0	0	0	0	0	0	0	0	0	853	3
PCT	6.3	25.1	41.9	19.7	5.4	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	1.0	.8	.0	.0	.0	.0	.0	1.8	.0	.4	1.6	.0	.8	.0	95.4
E	.2	.0	.2	.0	.0	.0	.0	.4	.7	1.0	3.6	.0	.0	.1	94.3
SE	.0	.0	.1	.0	.0	.0	.0	.1	.3	.4	1.8	.0	.3	.3	96.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	.0	.0	.0	.0	87.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	.1	.2	.0	.0	.0	.0	.5	.5	.8	2.7	.0	.2	.2	95.3
TOT OBS:	1286														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	.9	.0	.3	.0	.0	.0	.0	1.2	.9	1.5	3.8	.0	.0	.3	92.3
06&09	.0	.0	.3	.0	.0	.0	.0	.3	.3	1.7	1.7	.0	.3	.0	95.6
12&15	.0	.3	.0	.0	.0	.0	.0	.3	.5	.0	2.9	.0	.5	.3	95.5
18&21	.3	.0	.0	.0	.0	.0	.0	.3	.3	.0	2.1	.0	.0	.0	97.2
TOT PCT	.3	.1	.2	.0	.0	.0	.0	.5	.5	.8	2.7	.0	.2	.2	95.1
TOT OBS:	1301														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.1	.3	.0	.0	.0		1.9	6.6	1.2	1.4	1.8	.0	2.0	3.4	1.8	4.5
NE	.9	6.4	3.3	.0	.0	.0		10.6	9.1	7.9	12.3	10.2	17.5	10.0	16.9	10.1	23.9
E	1.9	27.0	28.8	.4	.0	.0		58.1	11.3	61.1	57.6	58.8	67.5	53.9	57.6	58.9	45.5
SE	1.1	13.4	11.5	*	.0	.0		26.0	10.6	27.0	24.3	25.8	7.5	29.8	19.5	25.7	18.2
S	.1	.9	.5	.0	.0	.0		1.5	8.8	1.1	1.4	1.7	2.5	2.0	.4	1.5	3.4
SW	.1	.4	.0	.0	.0	.0		.5	4.5	.4	1.8	.0	.0	.7	.8	.1	4.5
W	*	.6	.0	.0	.0	.0		.7	6.5	.9	1.1	.3	.0	.2	1.3	1.1	.0
NW	.2	.6	.0	.0	.0	.0		.8	5.1	.4	.0	1.4	5.0	1.1	.2	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.0	.0	.0	.0	.3	.0	.3	.0
TOT OBS	76	779	687	7	0	0	1549		10.6	348	69	316	20	330	132	312	22
TOT PCT	4.9	50.3	44.4	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	.8	.0	.0	.0		1.9	6.6	1.3	1.7	2.4	2.0
NE	3.4	6.7	.5	.0	.0		10.6	9.1	8.6	10.6	12.0	11.0
E	8.0	43.6	6.5	.0	.0		58.1	11.3	60.6	59.3	55.0	58.0
SE	5.8	17.5	2.6	.0	.0		26.0	10.6	26.6	24.7	26.8	25.2
S	.5	.9	.0	.0	.0		1.5	8.8	1.1	1.7	1.5	1.6
SW	.5	.0	.0	.0	.0		.5	4.5	.7	.0	.7	.4
W	.4	.3	.0	.0	.0		.7	6.5	.9	.3	.5	1.0
NW	.6	.1	.0	.0	.0		.8	5.1	.3	1.6	.8	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.0	.0	.2	.3
TOT OBS	317	1084	148	0	0	1549		10.6	417	336	462	334
TOT PCT	20.5	70.0	9.6	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.6	47.2	48.7	.5	.0	.0	11.0	100.0	417
06&09	.0	4.2	54.5	41.1	.3	.0	.0	10.5	100.0	336
12&15	.2	5.6	52.8	40.9	.4	.0	.0	10.2	100.0	462
18&21	.3	5.7	46.4	47.0	.6	.0	.0	10.9	100.0	334
TOT	2	74	779	687	7	0	0	10.6		1549
PCT	.1	4.8	50.3	44.4	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.2	.9	.0		4.1
NE	3.2	1.9	1.4	.5		3.2
E	29.9	16.7	10.6	1.4		2.8
SE	14.2	8.0	4.6	1.7		3.0
S	.5	.8	.4	.0		3.2
SW	.2	.0	.5	.0		4.0
W	.1	.1	.3	.3		6.1
NW	.3	.1	.5	.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.1	.0		5.0
TOT OBS	459	261	181	37	938	3.0
TOT PCT	48.9	27.8	19.3	3.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.2	.1	.1	.2	.0	.0	.9	
NE	.2	.0	.0	.2	.5	.0	.0	.2	*	.0	5.9	
E	.0	.0	.0	1.4	2.1	1.6	.3	.1	.1	.2	52.9	
SE	.0	.0	.0	1.0	1.1	1.2	.3	.2	.0	.0	24.7	
S	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	1.4	
SW	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	
W	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.6	
NW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	2	0	0	26	41	29	7	6	2	2	823	938
TOT PCT	.2	.0	.0	2.8	4.4	3.1	.7	.6	.2	.2	87.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	3.8	4.4	4.7	4.7	4.7	4.7	4.7	4.7
* OR >1000	7.3	8.8	9.1	9.1	9.1	9.1	9.1	9.1
* OR >400	9.9	11.7	12.0	12.0	12.0	12.0	12.0	12.0
* OR >300	9.9	11.7	12.0	12.0	12.0	12.0	12.0	12.0
* OR >150	9.9	11.7	12.0	12.0	12.0	12.0	12.0	12.0
* OR > 0	9.9	11.7	12.2	12.2	12.2	12.2	12.2	12.2
TOTAL	93	110	115	115	115	115	115	115

TOTAL NUMBER OF OBS: 944

PCT FREQ NH <5/8: 87.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.3	20.3	26.0	16.8	10.6	4.9	3.2	2.5	2.2 .2	944

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1881-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	.2	.3	.1	.0	.1	.0	.0	.0	.0	.7	
	TOT %	.0	.3	.4	.1	.0	.1	.0	.0	.0	.0	.8	
	PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.2	
5<10	NO PCP	.1	2.0	8.9	3.2	.4	.3	.0	.2	.0	.0	15.1	
	TOT %	.1	2.2	9.0	3.2	.4	.3	.0	.2	.0	.0	15.3	
	PCP	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	1.6	7.1	49.3	23.0	1.2	.1	.6	.6	.0	.1	83.6	
	TOT %	1.6	7.1	49.5	23.0	1.2	.1	.6	.6	.0	.1	83.8	
	TOT OBS												1275
	TOT PCT	1.8	9.5	58.9	26.3	1.6	.5	.6	.8	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.0	.2	.1	.1	.0	.1	.0	.0	.0		.4	
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.3	.1	.0	.1	.0	.0	.0	.0	.9	
	0-3	.0	.0	.3	*	.1	.1	.0	.0	.0	.0	.4	
5<10	4-10	*	.8	3.3	1.2	.2	.3	.0	.1	.0		5.9	
	11-21	.1	1.2	4.8	1.8	.2	.0	.0	.0	.0		8.1	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	2.1	8.4	3.0	.4	.3	.0	.1	.0	.0	14.4	
	0-3	.5	.7	1.1	1.2	.1	.0	.1	.2	.0	.1	3.8	
10+	4-10	.9	4.3	22.3	12.0	.7	.1	.5	.5	.0		41.4	
	11-21	.1	2.0	25.6	10.6	.4	.0	.0	.0	.0		38.8	
	22+	.0	.0	.3	*	.0	.0	.0	.0	.0		.4	
	TOT %	1.5	7.1	49.3	23.8	1.2	.1	.6	.6	.0	.1	84.3	
	TOT OBS												1378
	TOT PCT	1.7	9.5	58.3	27.0	1.6	.5	.6	.8	.0	.1	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1881-1973

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1.7N 46.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.0	.0	2.4	3.7	2.0	.4	.4	.4	.0	10.2	89.8	245
06&09	.0	.0	.0	3.3	6.9	4.9	.8	1.2	.0	.0	17.1	82.9	245
12&15	.0	.0	.0	3.3	3.3	2.1	.8	.4	.0	.4	10.3	89.7	242
18&21	.0	.0	.0	2.1	3.3	2.9	.8	.4	.4	.4	10.4	89.6	241
TOT	2	0	0	27	42	29	7	6	2	2	117	856	973
PCT	.2	.0	.0	2.8	4.3	3.0	.7	.6	.2	.2	12.0	88.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.8	1.4	17.8	79.8	366
06&09	.0	.0	.0	.6	11.2	88.1	312
12&15	.0	.0	.2	.7	16.6	82.4	410
18&21	.0	.0	.0	.7	11.1	88.2	305
TOT	0	1	4	12	202	1174	1393
PCT	.0	.1	.3	.9	14.5	84.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	.8	3.8	6.4	89.8	236
06&09	.0	.0	3.8	13.4	82.8	238
12&15	.0	.0	3.8	6.7	89.5	238
18&21	.0	.0	2.2	8.6	89.2	232
TOT	2	2	32	83	829	944
PCT	.2	.2	3.4	8.8	87.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.4	.8	.5	.0	.1	19	2.0
85/89	.0	.0	.0	.0	2.7	3.6	1.7	.5	83	8.5
80/84	.0	.0	.0	.3	3.9	29.2	24.7	7.1	635	65.2
75/79	.0	.0	.0	.1	.0	3.3	15.8	5.1	237	24.3
TOTAL	0	0	1	8	72	356	412	125	974	100.0
PCT	.0	.0	.1	.8	7.4	36.6	42.3	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.4	.4	.1	.0	.0	.0	.0	.0
.1	.9	5.3	2.1	.1	.0	.1	*	.0	.0
1.1	5.9	38.8	17.8	.8	.0	.3	.5	.0	.1
.4	2.2	14.3	6.6	.3	.0	.3	.3	.0	.0
1.5	9.0	59.8	26.9	1.2	.0	.7	.8	.0	.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	86	83	80	78	77	75	80.2	412
06&09	87	84	82	79	76	75	73	79.2	340
12&15	91	88	86	81	79	77	77	81.7	457
18&21	94	93	90	83	79	78	77	83.6	326
TOT	94	90	86	81	78	76	73	81.1	1535

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.8	2.3	32.2	49.8	14.9	83	261
06&09	.0	.0	.4	26.8	56.6	16.2	84	228
12&15	.0	.4	6.5	38.4	40.2	14.5	81	276
18&21	.0	2.8	21.6	50.5	20.6	4.6	75	218
TOT	0	9	72	361	415	126	81	983

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1881-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.1	.0	.7	.3	13	.0	1.1
9/10	.0	.0	.0	.3	1.0	.0	14	.0	1.2
7/8	.0	.0	.1	1.3	.4	.0	21	.0	1.8
6	.0	.0	.2	1.2	.1	.0	17	.0	1.5
5	.0	.0	1.0	1.7	.0	.0	31	.0	2.7
4	.0	.1	2.3	1.7	.1	.0	48	.0	4.2
3	.0	.3	3.3	.6	.0	.0	49	.0	4.3
2	.0	.6	7.9	.6	.0	.0	105	.1	9.1
1	.0	2.4	8.4	.1	.0	.0	124	.8	10.0
0	.0	10.5	8.6	.2	.0	.0	221	.5	18.7
-1	.2	11.0	5.0	.2	.0	.0	187	1.0	15.3
-2	.1	10.7	3.8	.0	.0	.0	168	.2	14.5
-3	.2	4.9	1.0	.0	.0	.0	69	.1	5.9
-4	.3	3.7	.5	.0	.0	.0	52	.2	4.4
-5	.2	.6	.4	.0	.0	.0	14	.0	1.2
-6	.3	.3	.0	.0	.0	.0	8	.0	.7
-7/-8	.3	.3	.0	.0	.0	.0	6	.0	.5
TOTAL	18		489		26			33	1114
		520		90		4	1147		
PCT	1.6	45.3	42.6	7.8	2.3	.3	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.5	.0	.0	.0	.0	.0	.5
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.8	.0	.0	.0	.0	1.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.4	.0	.0	.0	.0	1.0
1-2	.0	1.1	.1	.0	.0	.0	1.3
3-4	.0	1.7	.9	.0	.0	.0	2.6
5-6	.0	.4	.4	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.6	1.3	.0	.0	.0	5.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.3	.0	.0	.0	1.8
1-2	.0	8.9	4.6	.0	.0	.0	13.5
3-4	.0	7.8	19.7	.0	.0	.0	27.6
5-6	.0	2.2	11.6	.0	.0	.0	13.8
7	.0	.3	2.9	.0	.0	.0	3.2
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	20.8	39.3	.0	.0	.0	60.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.0	4.5	2.1	.0	.0	.0	6.6
3-4	.1	3.8	9.0	.0	.0	.0	12.9
5-6	.0	.3	5.8	.0	.0	.0	6.0
7	.0	.0	2.2	.0	.0	.0	2.2
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	9.4	19.4	.0	.0	.0	29.2

PERIOD: (OVER-ALL) 1963-1973

AUGUST

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA 1.7N 46.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
3-4	.2	.7	.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	.7	.0	.0	.0	2.1	.0	.1	.0	.0	.0	.0	.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.2	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.1	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.7	.0	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.1	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	2.6	.3	.0	.0	.0	4.5	
1-2	.6	15.3	6.8	.0	.0	.0	22.7	
3-4	.3	14.8	29.8	.0	.0	.0	44.9	
5-6	.0	3.1	18.2	.0	.0	.0	21.3	
7	.0	.3	5.1	.0	.0	.0	5.4	
8-9	.0	.6	.0	.0	.0	.0	.6	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	36.6	60.8	.0	.0	.0	100.0	352

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	15.4	25.5	9.2	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	430	3
6-7	.0	2.7	9.4	11.9	3.7	.4	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	5
8-9	.1	.4	2.2	2.1	.9	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
10-11	.0	.5	.3	.0	.1	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
12-13	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
>13	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	2.1	1.2	2.1	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	3
TOTAL	41	156	306	188	54	15	11	1	3	0	0	0	0	0	0	0	0	0	0	775	4
PCT	5.3	20.1	39.5	24.3	7.0	1.9	1.4	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1884-1974

AREA 0003 AMAZON DELTA
1.8N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0		98.5
E	.2	.2	.2	.0	.0	.0	.0	.6	.1	.1	.6	.0	.8	.0		97.7
SE	.1	.5	.0	.0	.0	.0	.0	.6	.5	.0	.0	.0	.2	.0		98.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	.1	.2	.1	.0	.0	.0	.0	.5	.1	.1	.7	.0	.6	.0		98.0
TOT OBS:	1371															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.0	.3	.0	.0	.0	.0	.9	.6	.3	.6	.0	.3	.0		97.4
06&09	.0	.3	.3	.0	.0	.0	.0	.7	.0	.0	.3	.0	.7	.0		98.3
12&15	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	1.2	.0	.9	.0		97.4
18&21	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.6	.0		98.7
TOT PCT	.1	.3	.1	.0	.0	.0	.0	.6	.1	.1	.7	.0	.7	.0		97.9
TOT OBS:	1382															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.7	.1	.1	.0	.0		1.0	8.3	1.2	.0	1.1	.0	.7	1.7	1.1	1.9
NE	.9	8.2	5.1	.2	.0	.0		14.4	9.9	12.8	18.3	16.8	25.0	14.5	18.5	9.2	25.0
E	1.4	28.0	35.5	.9	.0	.0		65.9	11.8	65.7	59.1	64.5	67.6	66.0	64.1	70.1	54.8
SE	.2	9.4	7.1	.2	.0	.0		16.9	10.5	17.2	21.0	15.9	7.4	17.1	15.0	18.2	18.3
S	.0	.2	.2	.0	.0	.0		.4	10.8	1.2	.0	.2	.0	.2	.0	.4	.0
SW	.1	.2	*	.0	.0	.0		.3	6.6	.3	1.6	.4	.0	.3	.7	.0	.0
W	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.2	.0	.0	.0	.0		.2	5.0	.5	.0	.0	.0	.3	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.1	.0	1.0	.0	.8	.0	.9	.0
TOT OBS	57	755	774	21	0	0	1607		11.1	366	63	303	27	368	135	319	26
TOT PCT	3.5	47.0	48.2	1.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	.5	.1	.0	.0		1.0	8.3	1.0	1.0	1.0	1.2
NE	3.9	9.4	1.1	.0	.0		14.4	9.9	13.6	17.5	15.6	10.4
E	8.7	48.4	8.8	.0	.0		65.9	11.8	64.7	64.8	65.5	69.0
SE	3.5	11.8	1.6	.0	.0		16.9	10.5	17.8	15.2	16.5	18.2
S	*	.3	*	.0	.0		.4	10.8	1.0	.2	.1	.4
SW	.1	.2	.0	.0	.0		.3	6.6	.5	.4	.4	.0
W	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NW	.2	.0	.0	.0	.0		.2	5.0	.5	.0	.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.9	.9	.6	.9
TOT OBS	285	1135	187	0	0	1607		11.1	429	330	503	345
TOT PCT	17.7	70.6	11.6	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1884-1974

AREA 0003 AMAZON DELTA
1.0N 46.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	3.5	45.7	48.3	1.6	.0	.0	11.2	100.0	429
06&09	.9	.9	48.5	49.1	.6	.0	.0	11.2	100.0	330
12&15	.6	3.2	47.3	47.3	1.6	.0	.0	11.0	100.0	503
18&21	.9	2.9	46.7	48.4	1.2	.0	.0	11.3	100.0	345
TOT	13	44	755	774	21	0	0	11.1		1607
PCT	.8	2.7	47.0	48.2	1.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.2	.2	.1		3.5
NE	8.0	3.0	1.6	.4		2.4
E	36.7	19.2	10.6	2.2		2.7
SE	7.5	5.3	2.2	.6		2.8
S	.5	.0	.0	.0		1.0
SW	*	.1	.1	.0		3.5
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.3	.1		3.6
TOT OBS	533	277	149	33	992	2.7
TOT PCT	53.7	27.9	15.0	3.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.6	
NE	.0	.0	.0	.1	.4	.3	.0	*	.0	.0	12.2	
E	.0	.0	.2	1.9	1.9	1.5	.2	.3	.0	.5	62.2	
SE	.0	.0	.0	.4	.5	.1	.1	.1	.1	.1	14.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	0	0	3	24	31	19	4	4	1	5	901	992
TOT PCT	.0	.0	.3	2.4	3.1	1.9	.4	.4	.1	.5	90.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >2000	3.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3
* OR >1000	5.5	6.4	6.5	6.5	6.5	6.5	6.5	6.5
* OR >600	7.8	8.8	8.9	8.9	8.9	8.9	8.9	8.9
* OR >300	8.1	9.1	9.2	9.2	9.2	9.2	9.2	9.2
* OR >150	8.1	9.1	9.2	9.2	9.2	9.2	9.2	9.2
* OR > 0	8.1	9.1	9.2	9.2	9.2	9.2	9.2	9.2
TOTAL	80	90	91	91	91	91	91	91

TOTAL NUMBER OF OBS: 991

PCT FREQ NH <5/8: 90.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.9	22.8	26.5	18.7	8.3	3.2	2.8	1.6	1.2	.0	1032

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1884-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	1.0	*	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.1	.2	1.0	*	.0	.0	.0	.0	.0	.0	1.2	
5<10	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	2.1	7.0	1.3	.1	.1	.0	.1	.0	.1	10.7	
	TOT %	.1	2.1	7.1	1.3	.1	.1	.0	.1	.0	.1	10.9	
10+	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	1.0	11.9	58.7	14.2	.5	.2	.0	.2	.0	.7	87.3	
	TOT %	1.0	11.9	59.0	14.3	.5	.2	.0	.2	.0	.7	87.6	
	TOT OBS												1368
	TOT PCT	1.2	14.2	67.3	15.6	.5	.2	.0	.2	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.2	*	.0	.0	.0	.0	.0		.3	
	11-21	*	.2	.6	*	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	.3	1.0	*	.0	.0	.0	.0	.0	.0	1.3	
5<10	0-3	*	.1	.1	.1	.0	.0	.0	.0	.0	.1	.5	
	4-10	.0	1.1	3.3	.9	*	.1	.0	.1	.0		5.5	
	11-21	.0	.7	3.9	.3	.0	.0	.0	.0	.0		4.9	
	22+	.0	.1	.3	*	.0	.0	.0	.0	.0		.4	
	TOT %	*	2.0	7.7	1.3	*	.1	.0	.1	.0	.1	11.3	
10+	0-3	.1	.5	1.1	.1	.0	.1	.0	.0	.0	.8	2.7	
	4-10	.7	6.8	24.7	8.0	.2	.1	.0	.1	.0		40.5	
	11-21	.1	3.5	31.4	7.1	.2	*	.0	.0	.0		42.4	
	22+	.1	.1	.6	.2	.0	.0	.0	.0	.0		.9	
	TOT %	.9	10.9	57.8	15.4	.4	.1	.0	.1	.0	.8	86.6	
	TOT OBS												1507
	TOT PCT	1.0	13.4	67.0	16.8	.5	.2	.0	.2	.0	.9	100.0	

PERIOD: (PRIMARY) 1938-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.4	2.0	2.8	2.8	.0	.0	.4	.4	8.7	91.3	254
06&09	.0	.0	.4	1.3	2.9	.8	.4	.0	.0	.8	6.7	93.3	239
12&15	.0	.0	.4	1.5	2.7	1.5	.0	.8	.0	.0	6.9	93.1	262
18&21	.0	.0	.0	4.3	3.6	2.2	1.1	.7	.0	.7	12.6	87.4	277
TOT	0	0	3	24	31	19	4	4	1	5	91	941	1032
PCT	.0	.0	.3	2.3	3.0	1.8	.4	.4	.1	.5	8.8	91.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	.5	.8	3.0	14.6	80.4	397
06&09	.3	.0	.0	.6	9.3	89.8	313
12&15	.0	.4	.0	.6	13.1	85.8	473
18&21	.0	.3	.0	1.2	7.2	91.3	335
TOT	4	5	3	21	173	1312	1518
PCT	.3	.3	.2	1.4	11.4	86.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.4	3.3	6.6	90.2	244
06&09	.0	.4	1.7	5.2	93.0	229
12&15	.0	.4	2.4	5.1	92.5	253
18&21	.0	.0	5.7	8.3	86.0	265
TOT	0	3	33	63	895	991
PCT	.0	.3	3.3	6.4	90.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.2	.0	.1	.0	3	.3
90/94	.0	.0	.0	.6	1.1	.5	.2	.0	24	2.3
85/89	.0	.0	.0	.1	2.4	6.0	1.4	1.0	112	10.8
80/84	.0	.0	.0	.1	2.1	29.4	24.3	9.4	676	65.3
75/79	.0	.0	.0	.0	.0	3.0	14.1	4.1	219	21.2
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	8	60	402	415	150	1035	100.0
PCT	.0	.0	.0	.8	5.8	38.8	40.1	14.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
.0	.1	1.6	.5	.0	.0	.0	.0	.0	.1
.2	1.0	7.2	2.3	.0	.0	.0	.1	.0	.0
.7	8.6	44.1	10.7	.3	.1	.0	.2	.0	.7
.0	3.9	13.5	3.3	.3	*	.0	.0	.0	.2
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.9	13.6	66.6	16.8	.6	.1	.0	.3	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	85	83	80	78	77	75	80.4	418
06&09	87	84	82	79	77	75	74	79.4	332
12&15	95	90	86	82	79	78	76	82.1	500
18&21	95	93	90	83	80	78	77	83.9	343
TOT	95	90	87	81	78	77	74	81.5	1593

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.7	34.2	45.7	19.3	83	269
06&09	.0	.0	.0	22.7	60.0	17.3	84	220
12&15	.0	.3	5.7	40.1	36.9	17.0	81	317
18&21	.0	3.0	17.4	57.2	19.5	3.0	75	236
TOT	0	8	61	404	418	151	81	1042

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PERIOD: (PRIMARY) 1938-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.2	3	.0	.2
11/13	.0	.0	.1	.2	.2	.4	11	.0	.9
9/10	.0	.0	.0	.1	1.5	.0	20	.0	1.6
7/8	.0	.0	.0	2.1	.5	.0	32	.0	2.5
6	.0	.1	.2	1.3	.1	.0	22	.0	1.7
5	.0	.0	.2	2.7	.0	.0	37	.0	2.9
4	.0	.1	3.0	1.5	.0	.0	58	.0	4.6
3	.0	.1	3.7	1.4	.0	.0	65	.1	5.1
2	.0	.5	9.0	.8	.0	.0	129	.1	10.2
1	.0	2.1	8.9	.2	.0	.0	142	.2	11.1
0	.0	10.2	9.3	.2	.0	.0	248	.1	19.6
-1	.0	10.8	4.5	.1	.0	.0	194	.1	15.3
-2	.0	9.8	3.2	.1	.0	.0	164	.1	12.9
-3	.0	3.8	1.3	.1	.0	.0	65	.0	5.2
-4	.2	3.2	.5	.0	.0	.0	48	.0	3.8
-5	.2	.7	.2	.0	.0	.0	15	.0	1.2
-6	.1	.3	.0	.0	.0	.0	5	.0	.4
-7/-8	.0	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	6	527	555	135	30	7	1260	7	1253
PCT	.5	41.8	44.0	10.7	2.4	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.5	1.1	.0	.0	.0	2.6
3-4	.3	1.9	2.5	.1	.0	.0	4.8
5-6	.0	.3	1.9	.0	.0	.0	2.2
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	5.9	.1	.0	.0	10.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.3	.0	.0	.0	2.9
1-2	.3	13.8	6.8	.0	.0	.0	20.8
3-4	.0	7.1	22.2	.4	.0	.0	29.7
5-6	.0	1.0	11.1	.3	.0	.0	12.3
7	.0	.0	3.7	.5	.0	.0	4.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	24.5	44.2	1.2	.0	.0	70.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.5	1.6	.0	.0	.0	4.1
3-4	.0	1.3	4.5	.1	.0	.0	5.9
5-6	.0	.4	3.4	.0	.0	.0	3.8
7	.0	.0	1.8	.0	.0	.0	1.8
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	12.0	.1	.0	.0	18.0

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	4.2	.3	.0	.0	.0	5.3	
1-2	.3	17.8	9.5	.0	.0	.0	27.6	
3-4	.3	10.9	29.2	.6	.0	.0	40.9	
5-6	.0	1.9	16.4	.3	.0	.0	18.7	
7	.0	.0	5.8	.6	.0	.0	6.4	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.3	.0	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								359
TOT PCT	1.4	35.1	62.1	1.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	15.7	24.4	9.8	2.4	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	474	3
6-7	.1	1.4	12.1	13.5	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	4
8-9	.0	.5	1.5	1.9	2.6	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
10-11	.0	.4	.1	.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
12-13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	1.9	.9	1.3	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	2
TOTAL	45	159	333	223	65	14	0	4	0	0	0	0	0	0	0	0	0	0	0	843	4
PCT	5.3	18.9	39.5	26.5	7.7	1.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.8N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.9	1.9	3.9	.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0		.0	94.2
NE	.0	.6	.0	.0	.0	.0	.0	.6	.4	.0	2.5	.0	.2		.0	96.2
E	.0	.1	.0	.0	.0	.0	.0	.1	.1	.1	1.0	.0	.4		.0	98.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	1.3	.0	.0		.0	96.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.1	.2	.1	.0	.0	.0	.0	.3	.5	.1	1.3	.0	.3		.0	97.6
TOT OBS:	1312															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.6	.6	.0	.0	.0	.0	1.2	.6	.3	1.8	.0	.3		.0	95.7
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.0	.0	.0		.0	98.4
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.5	.0	.5		.0	97.7
18&21	.0	.3	.0	.0	.0	.0	.0	.3	.3	.0	.7	.0	.3		.0	98.3
TOT PCT	.2	.2	.2	.0	.0	.0	.0	.4	.5	.1	1.3	.0	.3		.0	97.5
TOT OBS:	1333															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.2	.2	.0	.0	.0		1.8	6.4	1.9	2.8	2.4	5.0	1.5	.0	1.9	.0
NE	1.2	10.3	6.5	.1	.0	.0		18.1	9.7	15.9	20.4	19.8	12.5	20.7	21.5	14.9	12.5
E	2.0	32.4	29.0	.6	.0	.0		64.0	10.9	66.7	52.8	62.9	67.5	62.7	63.7	65.3	76.3
SE	.5	8.9	4.3	.1	.0	.0		13.9	9.7	12.8	19.7	12.8	15.0	12.2	14.8	16.4	11.3
S	*	.5	.3	.0	.0	.0		.8	9.9	.9	.0	.5	.0	1.9	.0	.2	.0
SW	.0	.1	.1	.0	.0	.0		.2	11.7	.0	1.4	.1	.0	.1	.0	.4	.0
W	.0	.0	.0	.1	.0	.0		.1	23.0	.0	.0	.3	.0	.0	.0	.0	.0
NW	*	.1	.0	.0	.0	.0		.1	4.0	.0	.0	.0	.0	.3	.0	.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.8	2.8	1.2	.0	.6	.0	.6	.0
TOT OBS	83	829	627	14	0	0	1553		10.3	339	71	326	20	347	122	308	20
TOT PCT	5.3	53.4	40.4	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	.9	.0	.0	.0		1.8	6.4	2.1	2.5	1.1	1.8
NE	4.5	12.4	1.3	.0	.0		18.1	9.7	16.7	19.4	20.9	14.7
E	11.4	46.1	6.5	.0	.0		64.0	10.9	64.3	63.2	63.0	66.0
SE	3.0	10.3	.6	.0	.0		13.9	9.7	14.0	12.9	12.9	16.1
S	.1	.7	.0	.0	.0		.8	9.9	.7	.5	1.4	.2
SW	.0	.2	.0	.0	.0		.2	11.7	.2	.1	.1	.4
W	.0	.0	.1	.0	.0		.1	23.0	.0	.3	.0	.0
NW	.1	.0	.0	.0	.0		.1	4.0	.0	.0	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	2.0	1.2	.4	.6
TOT OBS	327	1095	131	0	0	1553		10.3	410	346	469	328
TOT PCT	21.1	70.5	8.4	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.8N 46.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	4.6	54.9	37.8	.7	.0	.0	10.1	100.0	410
06&09	1.2	3.5	53.8	40.8	.9	.0	.0	10.3	100.0	346
12&15	.4	4.9	51.4	42.4	.9	.0	.0	10.3	100.0	469
18&21	.6	4.0	54.0	40.2	1.2	.0	.0	10.6	100.0	328
TOT	16	67	829	627	14	0	0	10.3		1553
PCT	1.0	4.3	53.4	40.4	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.6	.1	.1		2.2
NE	9.9	5.1	2.8	.3		2.7
E	33.6	23.0	9.1	.5		2.6
SE	5.3	3.7	1.9	.2		2.7
S	.2	.5	.2	.1		3.6
SW	.0	.2	*	.0		3.8
W	.0	.1	.0	.0		4.0
NW	.0	.0	.1	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.1	.0		2.0
TOT OBS	493	320	138	12	963	2.6
TOT PCT	51.2	33.2	14.3	1.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	2.2	
NE	.0	.0	*	.2	.7	.4	.1	.1	.0	.0	16.7	
E	.0	.0	.1	1.2	2.2	1.3	.2	.2	.0	.0	61.0	
SE	.0	.0	.1	.1	.7	.0	.0	.0	.0	.0	10.3	
S	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.6	
SW	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	0	0	2	16	36	17	4	3	0	0	885	963
TOT PCT	.0	.0	.2	1.7	3.7	1.8	.4	.3	.0	.0	91.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.3	.3	.3	.3	.3	.3	.3	.3
* OR >3500	.6	.6	.7	.7	.7	.7	.7	.7
* OR >2000	2.0	2.4	2.5	2.5	2.5	2.5	2.5	2.5
* OR >1000	5.6	6.1	6.2	6.2	6.2	6.2	6.2	6.2
* OR >600	7.3	7.8	7.9	7.9	7.9	7.9	7.9	7.9
* OR >300	7.5	8.0	8.1	8.1	8.1	8.1	8.1	8.1
* OR >150	7.5	8.0	8.1	8.1	8.1	8.1	8.1	8.1
* OR > 0	7.5	8.0	8.1	8.1	8.1	8.1	8.1	8.1
TOTAL	73	78	79	79	79	79	79	79

TOTAL NUMBER OF OBS: 978

PCT FREQ NH <5/8: 91.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.0	20.3	27.7	21.5	9.2	4.8	2.1	.7	.7	.0	1018

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.0N 46.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.1	.5	.0	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.1	.5	.0	.1	.0	.0	.0	.0	.0	.7	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	NO PCP	.1	2.0	6.6	1.6	.0	.0	.0	.0	.0	.2	10.5	
	TOT %	.1	2.0	6.6	1.6	.0	.0	.0	.0	.0	.2	10.5	
	PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
10+	NO PCP	1.8	15.8	58.8	10.5	.7	.1	.1	.1	.0	.6	88.6	
	TOT %	1.9	15.9	58.9	10.5	.7	.1	.1	.1	.0	.6	88.9	
	TOT OBS												1311
	TOT PCT	2.0	18.0	66.0	12.1	.8	.1	.1	.1	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	*	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.4	*	.1	.0	.0	.0	.0		.5	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.5	*	.1	.0	.0	.0	.0	.0	.7	
	0-3	.0	.2	.5	.0	.0	.0	.0	.0	.0	.1	.8	
5<10	4-10	.1	.9	2.6	1.3	.0	.0	.0	.0	.0		4.8	
	11-21	.0	.7	3.2	.3	.0	.0	.0	.0	.0		4.2	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	1.8	6.4	1.5	.0	.0	.0	.0	.0	.1	10.0	
	0-3	.5	.9	1.5	.5	.1	.0	.0	*	.0	.7	4.3	
10+	4-10	1.1	9.2	29.7	7.3	.5	.1	.0	.1	.0		47.9	
	11-21	.2	5.6	26.2	3.6	.3	.1	.0	.0	.0		36.0	
	22+	.0	.1	.5	.2	.0	.0	.1	.0	.0		.8	
	TOT %	1.8	15.8	58.0	11.6	.8	.1	.1	.1	.0	.7	88.9	
	TOT OBS												1435
	TOT PCT	1.9	17.8	65.2	13.2	.9	.1	.1	.1	.0	.8	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.8N 46.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	1.3	3.4	1.3	.0	.4	.0	.0	6.4	93.6	235
06&09	.0	.0	.4	1.1	2.3	.8	.0	.8	.0	.0	5.3	94.7	263
12&15	.0	.0	.4	1.9	3.8	1.9	.4	.0	.0	.0	8.4	91.6	261
18&21	.0	.0	.0	2.0	5.1	2.8	1.2	.0	.0	.0	11.0	89.0	254
TOT	0	0	2	16	37	17	4	3	0	0	79	934	1013
PCT	.0	.0	.2	1.6	3.7	1.7	.4	.3	.0	.0	7.8	92.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.5	1.1	1.9	13.9	82.6	368
06&09	.0	.0	.0	.3	5.7	94.0	336
12&15	.0	.0	.0	.5	11.7	87.8	436
18&21	.0	.0	.0	.0	7.3	92.7	316
TOT	0	2	4	10	144	1296	1456
PCT	.0	.1	.3	.7	9.9	89.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	1.3	5.3	93.3	225
06&09	.0	.4	1.6	4.0	94.5	253
12&15	.0	.4	2.8	6.0	91.2	251
18&21	.0	.0	2.0	9.2	88.8	249
TOT	0	2	19	60	899	978
PCT	.0	.2	1.9	6.1	91.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	1.3	.3	.0	.1	21	2.1
85/89	.0	.0	.1	.0	2.0	5.1	2.8	.4	104	10.4
80/84	.0	.0	.0	.2	1.9	27.3	33.7	7.0	703	70.0
75/79	.0	.0	.0	.0	.0	2.9	10.8	3.9	176	17.5
TOTAL	0	0	1	6	52	357	474	114	1004	100.0
PCT	.0	.0	.1	.6	5.2	35.6	47.2	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	1.4	.4	.0	.0	.0	.0	.0	.0
.2	1.8	6.7	1.4	.0	.1	.0	*	.0	.1
1.6	12.2	45.9	8.5	.8	.1	.0	.1	.0	.8
.3	3.5	11.3	2.2	.2	.0	.0	.0	.0	.0
2.1	17.8	65.4	12.5	1.0	.2	.0	.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	84	83	80	78	77	76	80.5	399
06&09	84	83	81	79	78	76	74	79.5	350
12&15	95	88	86	82	80	78	78	82.4	464
18&21	94	93	90	83	80	77	75	83.8	322
TOT	95	90	86	81	78	77	74	81.5	1535

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.8	1.6	27.5	55.8	14.3	83	231
06&09	.0	.0	1.2	22.0	58.9	17.8	84	241
12&15	.0	.0	3.0	44.3	43.6	9.2	80	305
18&21	.0	2.3	16.4	48.9	28.3	4.1	76	219
TOT	0	7	52	364	477	116	81	1016

OCTOBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.0N 46.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.2	.7	11	.0	.9
9/10	.0	.0	.0	.3	.9	.0	15	.0	1.2
7/8	.0	.0	.1	1.2	.3	.0	20	.0	1.7
6	.0	.0	.2	1.2	.2	.0	18	.0	1.5
5	.0	.1	.2	2.8	.0	.0	37	.0	3.1
4	.0	.0	2.1	2.4	.0	.0	55	.0	4.5
3	.0	.0	4.2	1.4	.0	.0	68	.0	5.6
2	.0	.7	7.8	.7	.0	.0	111	.0	9.2
1	.0	1.7	11.3	.2	.0	.0	161	.2	13.1
0	.0	6.8	12.1	.1	.0	.0	230	.3	18.7
-1	.0	9.3	5.1	.2	.0	.0	177	.7	13.9
-2	.0	10.2	2.6	.0	.0	.0	156	.2	12.7
-3	.1	4.0	.9	.0	.0	.0	61	.0	5.0
-4	.2	3.2	.7	.0	.0	.0	49	.0	4.0
-5	.0	1.1	.2	.0	.0	.0	15	.0	1.2
-6	.1	.9	.2	.0	.0	.0	14	.0	1.2
-7/-8	.2	.2	.2	.0	.0	.0	7	.0	.6
-9/-10	.0	.2	.1	.0	.0	.0	3	.0	.2
-11/-13	.0	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	6	468	580	128	20	9	1211	17	1194
PCT	.5	38.6	47.9	10.6	1.7	.7	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.4	.0	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.0	.0	.0	.0	2.5
1-2	.0	4.5	1.1	.0	.0	.0	5.6
3-4	.0	3.0	2.5	.0	.0	.0	5.4
5-6	.3	.6	2.6	.0	.0	.0	3.5
7	.0	.1	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.3	6.5	.0	.0	.0	17.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	3.3	.0	.0	.0	.0	3.6
1-2	1.1	15.8	4.5	.0	.0	.0	21.4
3-4	.2	11.3	14.7	.6	.0	.0	26.9
5-6	.4	3.9	8.6	.0	.0	.0	12.9
7	.0	.5	.8	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	35.1	28.6	.6	.0	.0	66.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	3.7	.7	.0	.0	.0	4.5
3-4	.1	2.7	2.5	.0	.0	.0	5.3
5-6	.1	.4	1.6	.0	.0	.0	2.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	5.1	.0	.0	.0	12.4

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	.0	.0	.0	.9	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	6.2	.0	.0	.0	.0	7.4	
1-2	1.2	25.5	6.2	.0	.0	.0	32.9	
3-4	.3	17.2	19.9	.6	.0	.0	38.0	
5-6	.9	5.0	13.1	.0	.0	.0	19.0	
7	.0	.6	1.5	.0	.0	.0	2.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.3	.0	.0	.0	.0	.3	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	54.9	40.7	.9	.0	.0	100.0	337

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	14.3	27.5	9.4	1.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	485	3
6-7	.0	1.9	11.6	10.3	2.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	4
8-9	.0	.4	1.9	2.8	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	5
10-11	.0	.4	.7	1.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
12-13	.0	.0	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
>13	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	1.6	1.1	1.1	.9	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	2
TOTAL	48	153	371	214	49	10	5	1	0	0	0	0	0	0	0	0	0	0	0	851	3
PCT	5.6	18.0	43.6	25.1	5.8	1.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	9.3	.0	.0	.0	.0	.0	90.7
NE	.4	.1	.0	.0	.0	.0	.0	.5	1.0	.0	1.3	.0	.0	.0	97.2
E	.5	1.1	.3	.0	.0	.0	.0	1.9	.8	.2	2.2	.0	.0	.1	94.8
SE	.0	.6	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.8	.0	98.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0
W	33.3	.0	.0	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0	.0	33.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.6	.0	.0	.0	.0	5.6	11.1	.0	.0	.0	.0	.0	83.3
TOT PCT	.5	.8	.3	.0	.0	.0	.0	1.5	1.2	.1	1.7	.0	.1	.1	95.2
TOT OBS:	1368														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0003	.9	1.2	.3	.0	.0	.0	.0	2.4	1.5	.3	2.4	.0	.0	.0	93.5
0609	.0	1.0	.0	.0	.0	.0	.0	1.0	2.6	.3	1.0	.0	.3	.0	94.8
1215	.5	.7	.2	.0	.0	.0	.0	1.4	.2	.0	2.1	.0	.0	.0	96.2
1821	.7	.3	.7	.0	.0	.0	.0	1.3	1.0	.0	1.0	.0	.0	.3	96.4
TOT PCT	.5	.8	.3	.0	.0	.0	.0	1.5	1.2	.1	1.7	.0	.1	.1	95.3
TOT OBS:	1376														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.5	.3	.0	.0	.0		2.0	8.1	2.5	1.1	3.4	1.6	2.1	.0	1.4	.0
NE	1.5	14.0	7.1	.2	.0	.0		22.8	9.4	20.9	22.0	23.5	14.5	26.5	22.9	21.8	11.1
E	1.7	30.7	29.3	.8	.0	.0		62.6	11.1	62.6	60.1	61.5	65.3	61.8	63.1	63.8	73.1
SE	.4	5.8	3.7	.1	.0	.0		10.1	9.9	10.7	15.2	9.4	8.9	8.3	12.1	10.0	8.3
S	.1	.4	*	.0	.0	.0		.5	6.4	.4	1.6	.3	.0	.6	.6	.6	.0
SW	.0	.1	.0	.0	.0	.0		.1	6.0	.3	.0	.0	.0	.0	.0	.0	.0
W	.0	.1	.1	.0	.0	.0		.2	7.6	.6	.0	.0	.0	.3	.0	.0	.0
NW	.0	.0	.1	.0	.0	.0		.1	19.0	.0	.0	.3	.0	.3	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	2.0	.0	1.5	9.7	.3	1.3	2.3	7.4
TOT OBS	96	908	700	20	0	0	1724		10.3	352	92	334	31	384	157	347	27
TOT PCT	5.6	52.7	40.6	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	1.3	.0	.0	.0		2.0	8.1	2.2	3.3	1.5	1.3
NE	6.2	15.4	1.2	.0	.0		22.8	9.4	21.1	22.7	25.5	21.1
E	10.6	44.9	7.2	.0	.0		62.6	11.1	62.1	61.8	62.2	64.5
SE	3.0	6.2	.9	.0	.0		10.1	9.9	11.7	9.4	9.4	9.9
S	.3	.2	.0	.0	.0		.5	6.4	.7	.3	.6	.5
SW	.1	.0	.0	.0	.0		.1	6.0	.2	.0	.0	.0
W	.1	.1	.0	.0	.0		.2	7.6	.5	.0	.2	.0
NW	.0	.0	.1	.0	.0		.1	19.0	.0	.3	.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.6	2.2	.6	2.7
TOT OBS	390	1172	162	0	0	1724		10.3	444	365	541	374
TOT PCT	22.6	68.0	9.4	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	3.6	52.5	40.5	1.8	.0	.0	10.4	100.0	444
06&09	2.2	5.2	53.7	38.1	.8	.0	.0	10.0	100.0	365
12&15	.6	3.3	53.2	42.0	.9	.0	.0	10.5	100.0	541
18&21	2.7	4.0	51.1	41.2	1.1	.0	.0	10.3	100.0	374
TOT	28	68	908	700	20	0	0	10.3		1724
PCT	1.6	3.9	52.7	40.6	1.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.5	.5	.1		3.0
NE	9.2	7.7	3.9	1.3		3.3
E	30.9	20.1	12.7	1.4		2.9
SE	3.6	2.2	2.0	.1		3.0
S	.0	.0	.2	.1		6.4
SW	.0	.0	.1	.0		6.0
W	.1	.0	.1	.0		3.0
NW	.0	.1	.1	.0		4.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.5	.5	.0		3.5
TOT OBS	450	307	197	30	984	3.0
TOT PCT	45.7	31.2	20.0	3.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2.3	
NE	.0	.0	.0	.6	1.0	.7	.1	.0	.0	.1	19.7	
E	.2	.0	.0	1.7	2.3	1.1	.9	.1	.2	.0	58.6	
SE	.0	.0	.0	.4	.2	.2	*	.0	.0	.0	7.2	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.4	
TOT OBS	2	0	0	27	37	22	10	1	2	1	882	984
TOT PCT	.2	.0	.0	2.7	3.8	2.2	1.0	.1	.2	.1	89.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
≥ OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
≥ OR >3500	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
≥ OR >2000	3.2	3.5	3.6	3.7	3.7	3.7	3.7	3.7
≥ OR >1000	6.8	7.3	7.4	7.5	7.5	7.5	7.5	7.5
≥ OR >600	9.2	10.0	10.1	10.2	10.2	10.2	10.2	10.2
≥ OR >300	9.2	10.0	10.1	10.2	10.2	10.2	10.2	10.2
≥ OR >150	9.2	10.0	10.1	10.2	10.2	10.2	10.2	10.2
≥ OR > 0	9.3	10.2	10.3	10.4	10.4	10.4	10.4	10.4
TOTAL	92	101	102	103	103	103	103	103

TOTAL NUMBER OF OBS: 989

PCT FREQ NH <5/8: 89.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.0	19.5	30.8	20.3	9.9	4.6	2.5	2.3	1.0	.1	1020

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1881-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	NO PCP	.0	.1	.8	.3	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.1	.8	.3	.0	.0	.0	.0	.0	.1	1.3	
	PCP	.0	.1	.6	.1	.0	.0	.1	.0	.0	.0	.8	
5<10	NO PCP	.2	4.5	9.4	.4	.0	.0	.0	.0	.0	.1	14.6	
	TOT %	.2	4.6	10.0	.5	.0	.0	.1	.0	.0	.1	15.4	
	PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
10+	NO PCP	1.9	18.4	52.7	7.8	.2	.1	.1	.1	.0	1.2	82.7	
	TOT %	1.9	18.4	53.2	7.8	.2	.1	.1	.1	.0	1.2	83.2	
	TOT OBS												1368
	TOT PCT	2.2	23.1	64.1	8.6	.2	.1	.2	.1	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	11-21	.0	.1	.6	*	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	.8	.3	.0	.0	.0	.0	.0	.1	1.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
5<10	4-10	.2	2.8	4.0	.4	*	.0	.0	.0	.0		7.4	
	11-21	.0	1.4	5.0	.1	.0	.0	.1	.0	.0		6.6	
	22+	.0	.1	.3	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.2	4.3	9.3	.5	*	.0	.1	.0	.0	.1	14.4	
	0-3	.2	1.4	1.4	.4	.1	.0	.0	.0	.0	1.3	4.8	
10+	4-10	1.4	11.3	27.1	4.2	.3	.1	.1	.0	.0		44.5	
	11-21	.3	6.0	23.7	3.6	*	.0	.0	.1	.0		33.8	
	22+	.0	.1	.6	.1	.0	.0	.0	.0	.0		.9	
	TOT %	1.9	18.9	52.7	8.4	.4	.1	.1	.1	.0	1.3	84.0	
	TOT OBS												1516
	TOT PCT	2.1	23.3	62.9	9.2	.5	.1	.2	.1	.0	1.5	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.1	2.9	1.7	.4	.0	.8	.0	8.0	92.0	238
06&09	.4	.0	.0	.8	2.4	1.2	1.6	.0	.0	.0	6.5	93.5	245
12&15	.4	.0	.0	4.0	4.0	2.9	.7	.0	.0	.0	12.0	88.0	276
18&21	.0	.0	.0	3.5	5.1	3.1	1.2	.4	.0	.4	13.6	86.4	257
TOT	2	0	0	27	37	23	10	1	2	1	103	913	1016
PCT	.2	.0	.0	2.7	3.6	2.3	1.0	.1	.2	.1	10.1	89.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.5	3.4	18.6	77.3	387
06&09	.0	.0	.3	.3	12.0	87.4	333
12&15	.0	.0	.2	.9	16.6	82.3	469
18&21	.0	.0	.0	.3	9.3	90.4	335
TOT	0	1	4	19	221	1279	1524
PCT	.0	.1	.3	1.2	14.5	83.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.0	5.6	91.3	231
06&09	.4	.4	1.7	5.5	92.8	237
12&15	.4	.4	4.8	7.8	87.4	269
18&21	.0	.0	4.0	9.9	86.1	252
TOT	2	2	34	72	883	989
PCT	.2	.2	3.4	7.3	89.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	1.3	.6	.2	.1	23	2.2
85/89	.0	.0	.0	.2	1.8	6.8	.9	.8	109	10.5
80/84	.0	.0	.0	.1	2.4	29.9	34.6	6.4	764	73.5
75/79	.0	.0	.0	.0	.1	1.4	7.4	4.7	142	13.7
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	4	58	403	448	126	1039	100.0
PCT	.0	.0	.0	.4	5.6	38.8	43.1	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	1.7	.1	.0	.0	.0	.0	.0	.0
*	1.8	7.3	1.0	.0	.0	.0	.0	.0	.3
1.6	18.3	46.8	5.6	.2	.0	.1	.0	.0	.9
.7	2.8	7.8	1.7	.0	.1	.2	.1	.0	.3
.0	*	.1	.0	.0	.0	.0	.0	.0	.0
2.5	23.4	63.6	8.4	.2	.1	.3	.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	84	83	81	78	75	70	80.5	439
06&09	95	84	82	80	78	75	73	79.9	369
12&15	92	90	87	82	80	78	75	82.7	529
18&21	94	93	90	83	80	79	77	83.8	366
TOT	95	90	87	81	78	77	70	81.8	1703

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.8	29.2	54.5	15.4	84	253
06&09	.0	.4	.4	22.9	59.7	16.5	84	231
12&15	.0	.3	6.2	44.3	37.8	11.5	80	323
18&21	.0	.8	14.8	56.8	22.5	5.1	76	236
TOT	0	4	58	404	451	126	81	1043

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1881-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.3	5	.0	.4
9/10	.0	.0	.0	.0	.3	.8	.1	13	.0	1.1
7/8	.0	.0	.0	.0	1.0	1.5	.0	29	.0	2.5
6	.0	.0	.0	.1	1.0	.3	.0	17	.0	1.5
5	.0	.0	.0	.3	1.6	.2	.0	25	.0	2.2
4	.0	.0	.0	1.6	1.7	.0	.0	38	.0	3.3
3	.0	.0	.1	2.6	1.6	.0	.0	50	.0	4.3
2	.0	.0	.1	7.6	.9	.1	.0	100	.3	8.4
1	.0	.0	.7	9.5	.4	.0	.0	123	.2	10.5
0	.0	.0	5.5	13.9	.2	.0	.0	225	.9	18.6
-1	.0	.0	9.5	7.5	.1	.0	.0	198	.3	16.8
-2	.0	.0	9.2	4.9	.0	.0	.0	162	.3	13.7
-3	.0	.1	4.4	2.0	.0	.0	.0	75	.0	6.5
-4	.0	.1	3.8	.5	.0	.0	.0	51	.0	4.4
-5	.0	.1	1.4	.2	.0	.0	.0	19	.0	1.6
-6	.0	.3	.8	.1	.0	.0	.0	13	.0	1.1
-7/-8	.0	.2	.3	.1	.0	.0	.0	6	.0	.5
-9/-10	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	9	412	587	103	36	5	1153	23	1130
PCT	.1	.8	35.7	50.9	8.9	3.1	.4	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.3	.8	.3	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.3	.0	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.0	5.5	1.6	.0	.0	.0	7.2
3-4	.1	3.7	3.0	.0	.0	.0	6.8
5-6	.0	.5	1.4	.0	.0	.0	1.9
7	.0	.5	.0	.0	.0	.0	.5
8-9	.3	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	10.4	6.0	.0	.0	.0	17.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.3	.0	.0	.0	3.1
1-2	.3	10.2	5.4	.0	.0	.0	15.8
3-4	.2	11.5	15.5	.0	.0	.0	27.2
5-6	.3	2.1	13.5	.5	.0	.0	16.3
7	.0	.5	2.9	.5	.0	.0	4.0
8-9	.0	.0	1.8	.3	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	27.1	39.5	1.2	.0	.0	68.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.8	1.0	.8	.0	.0	.0	2.6
3-4	.0	1.6	2.1	.0	.0	.0	3.7
5-6	.0	1.0	2.0	.1	.0	.0	3.1
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.1	5.1	.1	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA
1.7N 46.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.4	.3	.0	.0	.0	6.3	
1-2	1.0	17.2	7.8	.0	.0	.0	26.0	
3-4	.8	17.7	20.8	.0	.0	.0	39.3	
5-6	.3	3.6	16.9	.5	.0	.0	21.4	
7	.0	1.0	3.1	.5	.0	.0	4.7	
8-9	.3	.0	1.8	.3	.0	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	43.0	50.8	1.3	.0	.0	100.0	384

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.9	15.3	24.5	5.7	2.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	468	3
6-7	.2	1.2	9.5	9.2	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	4
8-9	.0	1.2	2.5	3.9	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	5
10-11	.0	.3	.5	.5	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
12-13	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
>13	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	3.0	1.5	3.6	1.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	3
TOTAL	79	168	362	184	95	14	1	2	0	0	0	0	0	0	0	0	0	0	0	865	3
PCT	9.1	19.4	41.8	21.3	6.4	1.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1890-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	2.5	.0	.0	.0	.0	.0	2.5	5.7	.0	.0	.0	.0	.0	.0	91.8
NE	2.1	1.0	.4	.0	.0	.0	.4	3.9	1.9	.5	1.5	.0	.2	.0	.0	92.0
E	.9	1.3	.6	.0	.0	.0	.3	3.0	1.5	.3	1.9	.0	.2	.0	.0	93.2
SE	.4	4.6	.4	.0	.0	.0	.0	5.0	.0	.0	1.7	.0	.0	.0	.0	93.3
S	.0	.0	.0	.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	63.6
SW	.0	.0	100.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0
W	36.4	.0	.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	.0	63.6
NW	.0	29.6	14.8	.0	.0	.0	.0	44.4	3.7	.0	.0	.0	.0	.0	.0	51.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	1.5	1.5	.6	.0	.0	.0	.3	3.9	1.9	.3	1.6	.0	.2	.0		92.2
TOT OBS:	1294															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.0	2.3	.3	.0	.0	.0	.3	5.0	3.0	.3	2.0	.0	.3		.0	89.3
06&09	1.6	2.3	1.0	.0	.0	.0	.0	4.5	1.6	.6	1.3	.0	.0		.0	92.0
12&15	.5	.5	.5	.0	.0	.0	.5	2.1	.8	.0	2.1	.0	.3		.0	94.8
18&21	1.9	1.6	.6	.0	.0	.0	.3	4.5	2.3	.3	1.0	.0	.0		.0	91.9
TOT PCT	1.5	1.6	.6	.0	.0	.0	.3	3.9	1.8	.3	1.6	.0	.2		.0	92.1
TOT OBS:	1298															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	3.1	1.2	*	.0	.0		4.7	9.9	4.5	4.2	5.7	5.6	5.0	3.2	4.3	.0
NE	1.3	19.9	16.5	.4	.0	.0		38.2	10.7	36.9	43.2	34.8	44.4	39.5	40.3	37.8	61.4
E	1.2	23.4	25.1	.2	.0	.0		49.8	11.3	50.5	41.1	53.8	47.2	47.2	45.7	52.1	34.1
SE	.5	3.1	2.0	.0	.0	.0		5.6	9.0	5.6	9.7	4.8	2.8	6.0	8.6	4.3	4.5
S	.0	.3	.1	.0	.0	.0		.4	10.0	.8	.0	.0	.0	.4	1.4	.2	.0
SW	*	.1	.0	.0	.0	.0		.1	8.2	.0	.4	.0	.0	.0	.0	.3	.0
W	*	.2	.1	.0	.0	.0		.3	8.5	.3	1.3	.5	.0	.0	.0	.3	.0
NW	.2	.2	.1	.0	.0	.0		.5	5.8	.6	.0	.4	.0	.9	.0	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.9	.0	.0	.0	.9	.9	.3	.0
TOT OBS	63	771	694	10	0	0	1538		10.8	328	59	334	18	343	111	323	22
TOT PCT	4.1	50.1	45.1	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	3.2	.3	.0	.0		4.7	9.9	4.5	5.7	4.6	4.1
NE	6.4	28.1	3.6	.1	.0		38.2	10.7	37.9	35.3	39.7	39.3
E	6.7	36.1	5.0	.0	.0		49.8	11.3	49.0	53.5	46.9	50.9
SE	1.8	3.6	.2	.0	.0		5.6	9.0	6.2	4.7	6.7	4.3
S	.0	.4	.0	.0	.0		.4	10.0	.6	.0	.6	.1
SW	*	.1	.0	.0	.0		.1	8.2	.1	.0	.0	.3
W	*	.2	.0	.0	.0		.3	8.5	.5	.5	.0	.3
NW	.3	.2	.0	.0	.0		.5	5.8	.5	.4	.7	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.8	.0	.9	.3
TOT OBS	263	1134	140	1	0	1538		10.8	387	352	454	345
TOT PCT	17.1	73.7	9.1	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.8	4.4	49.1	45.2	.5	.0	.0	10.6	100.0	387
06&09	.0	2.3	54.3	43.2	.3	.0	.0	10.8	100.0	352
12&15	.9	4.8	48.9	44.7	.7	.0	.0	10.7	100.0	454
18&21	.3	2.3	48.7	47.5	1.2	.0	.0	11.2	100.0	345
TOT	8	55	771	694	10	0	0	10.8		1538
PCT	.5	3.6	50.1	45.1	.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.7	2.0	1.1		5.1
NE	11.0	10.4	12.4	3.0		4.0
E	18.9	17.4	12.5	4.6		3.6
SE	1.3	.8	.8	.2		3.1
S	.0	.0	.0	.1		8.0
SW	.0	.0	.0	.1		8.0
W	.1	.1	.0	.1		4.7
NW	.0	.1	.2	*		5.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.0	.0		2.2
TOT OBS	317	300	274	91	982	3.8
TOT PCT	32.3	30.5	27.9	9.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	.5	.7	.1	.1	.0	.0	.0	3.8	
NE	.1	.1	.3	1.7	2.7	1.1	.7	*	.4	.0	29.6	
E	.2	.1	.4	2.1	3.7	1.1	.6	.4	.0	.1	44.7	
SE	.0	.0	.1	.1	.3	.2	.0	*	.0	.0	2.5	
S	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
NW	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
TOT OBS	3	2	10	44	75	24	14	4	4	1	801	982
TOT PCT	.3	.2	1.0	4.5	7.6	2.4	1.4	.4	.4	.1	81.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
* OR >3500	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	4.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7
* OR >1000	11.3	12.2	12.3	12.4	12.4	12.4	12.4	12.4
* OR >600	14.9	16.6	16.8	16.9	16.9	16.9	16.9	16.9
* OR >300	15.7	17.5	17.8	17.9	17.9	17.9	17.9	17.9
* OR >150	15.7	17.7	18.1	18.2	18.2	18.2	18.2	18.2
* OR > 0	15.7	17.9	18.4	18.5	18.5	18.5	18.5	18.5
TOTAL	153	175	179	180	180	180	180	180

TOTAL NUMBER OF OBS: 975

PCT FREQ NH <5/8: 81.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.6	14.7	22.8	22.3	10.8	5.5	6.3	3.0	3.8	.1	1021

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.2	.3	.3	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.1	.4	.4	.3	.0	.0	.0	.0	.0	.0	1.2	
5<10	PCP	.1	.8	.9	.1	.0	.0	.0	.2	.0	.0	1.9	
	NO PCP	.3	6.1	5.0	.9	.2	.0	.0	.2	.0	.0	12.6	
	TOT %	.3	6.9	5.9	1.0	.2	.0	.0	.3	.0	.0	14.5	
10+	PCP	.1	.5	.5	.1	.0	.1	.1	.1	.0	.0	1.4	
	NO PCP	4.3	30.6	44.0	3.2	.1	.0	.1	.1	.0	.3	82.7	
	TOT %	4.3	31.1	44.5	3.3	.1	.1	.2	.2	.0	.3	84.1	
	TOT OBS												1288
	TOT PCT	4.7	38.4	50.9	4.6	.2	.1	.2	.5	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.2	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.3	.1	.0	.0	.0	.0	.0		.6	
	11-21	.0	.1	.3	.1	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.5	.3	.0	.0	.0	.0	.0	.0	1.2	
5<10	0-3	.1	.2	.3	.1	.0	.0	.0	.1	.0	.0	.7	
	4-10	.2	2.9	2.3	.4	.1	.0	.0	.1	.0		5.9	
	11-21	.1	3.2	3.0	.4	.1	.0	.0	.1	.0		6.9	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.3	6.5	5.7	.9	.1	.0	.0	.3	.0	.0	13.8	
10+	0-3	.3	1.0	.6	.3	.0	.0	.0	.1	.0	.5	2.9	
	4-10	2.5	15.6	20.8	2.4	.2	.1	.2	.1	.0		41.8	
	11-21	1.1	13.7	22.7	1.5	*	.0	.1	.0	.0		39.1	
	22+	.1	.3	.1	.0	.0	.0	.0	.0	.0		.4	
	TOT %	4.0	30.5	44.3	4.2	.2	.1	.3	.2	.0	.5	84.2	
	TOT OBS												1439
	TOT PCT	4.3	37.8	50.8	5.3	.4	.1	.3	.5	.0	.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.0	7.7	2.7	.9	.9	.0	.0	17.3	82.7	220
06&09	.4	.4	1.1	3.8	4.9	2.7	2.3	.4	.8	.4	17.0	83.0	264
12&15	.4	.4	1.5	3.5	8.1	2.3	1.2	.0	.4	.0	17.7	82.3	260
18&21	.4	.0	1.1	5.2	9.0	1.9	1.1	.4	.4	.0	19.5	80.5	267
TOT	3	2	10	44	75	24	14	4	4	1	181	830	1011
PCT	.3	.2	1.0	4.4	7.4	2.4	1.4	.4	.4	.1	17.9	82.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	1.7	.9	2.9	12.9	81.1	349
06&09	.0	.0	.0	.6	9.2	90.2	336
12&15	.2	.0	.0	1.2	15.9	82.7	428
18&21	.0	.0	.3	.0	16.4	83.3	330
TOT	3	6	4	17	198	1215	1443
PCT	.2	.4	.3	1.2	13.7	84.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.5	5.7	12.7	81.6	212
06&09	.4	2.0	6.3	11.1	82.5	252
12&15	.4	2.4	5.9	12.3	81.8	253
18&21	.4	1.6	7.4	12.8	79.8	258
TOT	3	16	62	119	794	975
PCT	.3	1.6	6.4	12.2	81.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.1	.0	2	.2
90/94	.0	.0	.0	.4	.7	.2	.2	.1	16	1.6
85/89	.0	.0	.1	.1	1.3	5.5	1.7	1.2	100	9.8
80/84	.0	.0	.0	.2	1.3	20.5	34.2	12.9	704	69.1
75/79	.0	.0	.0	.0	.1	2.6	10.0	6.2	193	18.9
70/74	.0	.0	.0	.0	.0	.0	.1	.3	4	.4
TOTAL	0	0	1	7	35	294	472	210	1019	100.0
PCT	.0	.0	.1	.7	3.4	28.9	46.3	20.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.1	.1	.0	.0	.0	.0	.0	.0
.0	.5	1.0	.1	.0	.0	.0	.0	.0	.0
.4	4.1	4.7	.6	.0	.0	.0	*	.0	.0
3.1	26.2	36.2	2.9	.0	.0	.1	.2	.0	.4
1.4	7.2	8.9	.7	.2	.1	.2	.3	.0	.0
.0	.0	.2	*	.1	.0	.0	.0	.0	.1
4.9	38.0	51.0	4.4	.3	.1	.3	.6	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	84	83	80	78	76	72	80.5	382
06&09	87	84	82	80	78	76	74	79.8	352
12&15	95	90	87	82	79	76	74	82.3	449
18&21	95	92	89	82	79	75	74	83.1	341
TOT	95	90	86	81	78	76	72	81.4	1524

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	1.2	17.6	55.3	25.5	86	255
06&09	.0	.0	1.7	18.7	58.1	21.6	85	241
12&15	.0	.3	3.0	35.6	37.9	23.2	83	298
18&21	.0	2.6	8.3	43.0	34.6	11.4	78	228
TOT	0	8	35	294	473	212	83	1022

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1890-1973

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.3	.3	6	.0	.5
9/10	.0	.0	.0	.0	.4	.6	.0	11	.0	1.0
7/8	.0	.0	.0	.0	.5	.9	.0	16	.0	1.4
6	.0	.0	.0	.0	1.3	.0	.0	15	.0	1.3
5	.0	.0	.1	.3	2.1	0	.0	27	.0	2.4
4	.0	.0	.2	.8	1.9	.1	.0	33	.0	2.9
3	.0	.0	.0	1.9	1.8	.0	.0	41	.0	3.7
2	.0	.0	.5	7.2	.7	.0	.0	95	.1	8.4
1	.0	.0	.8	8.5	.3	.0	.0	107	.4	9.2
0	.0	.0	4.8	13.0	.0	.0	.0	222	.6	19.2
-1	.0	.0	7.8	8.1	.0	.0	.0	178	.4	15.5
-2	.0	.0	10.9	3.8	.1	.0	.0	165	.0	14.7
-3	.0	.1	7.1	1.2	.0	.0	.0	94	.0	8.4
-4	.0	.3	3.8	.6	.0	.0	.0	53	.1	4.6
-5	.0	.6	1.8	.5	.0	.0	.0	33	.3	2.7
-6	.0	.8	.4	.0	.0	.0	.0	13	.1	1.1
-7/-8	.0	.3	.1	.1	.0	.0	.0	5	.0	.4
-9/-10	.1	.1	.0	.1	.0	.0	.0	3	.0	.3
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	25	429	538	101	21	4	1119	21	1098
PCT	.1	2.2	38.3	48.1	9.0	1.9	.4	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.3	.0	.0	.0	2.4
3-4	.3	.9	.2	.0	.0	.0	1.4
5-6	.0	.6	.2	.2	.0	.0	1.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.5	1.1	.2	.0	.0	5.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.1
1-2	1.1	6.7	4.1	.0	.0	.0	11.9
3-4	.0	9.5	8.1	.0	.0	.0	17.6
5-6	.0	1.4	6.1	.4	.0	.0	7.8
7	.0	.3	.8	.4	.0	.0	1.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.3	.0	.0	.0	.0	.3
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	18.7	19.4	.7	.0	.0	40.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.0	6.8	4.2	.0	.0	.0	11.0
3-4	.3	8.9	12.5	.0	.0	.0	21.7
5-6	.0	1.5	11.0	.0	.0	.0	12.5
7	.0	.0	2.2	.2	.0	.0	2.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	17.5	30.1	.2	.0	.0	48.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.4	.6	.0	.0	.0	.9
3-4	.0	.6	.9	.0	.0	.0	1.5
5-6	.0	.3	.6	.0	.0	.0	.9
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	2.4	.0	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

TABLE 18 (CONT)

AREA 0003 AMAZON DELTA
1.7N 46.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
3-4	.2	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.0	.3	.0	.0	.0	.5	.6	.1	.0	.0	.0	.0	.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	1.1	.0	.0	.0	.0	2.8	
1-2	1.4	15.9	9.1	.0	.0	.0	26.4	
3-4	1.1	19.9	21.6	.0	.0	.0	42.6	
5-6	.0	3.7	17.9	.6	.0	.0	22.2	
7	.0	.3	3.7	.6	.0	.0	4.5	
8-9	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.3	.0	.0	.0	.0	.3	
12	.0	.3	.3	.0	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	41.5	53.1	1.1	.0	.0	100.0	352

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	11.8	21.7	9.3	1.9	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	414	3
6-7	.2	.7	15.2	16.1	4.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319	4
8-9	.0	.1	1.5	4.2	2.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
10-11	.0	.5	.2	.6	.8	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
12-13	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.9	.8	.8	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	3
TOTAL	32	120	342	265	82	11	4	5	1	0	0	0	0	0	0	0	0	0	0	862	4
PCT	3.7	13.9	39.7	30.7	9.5	1.3	.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1876-1974

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	2.6	1.4	1.9	.0	.0	.0	.0	5.4	3.6	.1	.2	.0	.8	.0		90.0
NE	2.1	2.4	.8	.0	.0	.0	*	5.3	2.4	.6	2.1	*	.5	*		89.1
E	2.4	2.6	1.1	.0	.0	.0	*	6.0	2.9	.5	1.8	.0	.4	*		88.5
SE	6.4	2.9	1.3	.0	.0	.0	.0	10.2	3.4	.2	1.7	.0	.4	.1		84.1
S	6.9	2.7	3.3	.0	.0	.0	.0	12.9	8.5	.0	.0	.0	.0	.0		78.6
SW	5.2	3.5	8.3	.0	.0	.0	.0	17.0	19.6	.0	.3	.0	.0	.0		63.0
W	9.0	2.4	2.4	.0	.0	.0	.0	13.8	3.9	1.0	2.1	.0	1.2	.0		61.2
NW	3.7	6.0	1.8	.0	.0	.0	.0	11.5	4.6	.0	.0	.0	.5	.0		83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.7	1.2	.5	.0	.0	.0	.0	3.3	4.1	.0	.0	.0	.0	.0		92.6
TOT PCT	2.4	2.2	.9	.0	.0	.0	*	5.5	2.7	.4	1.7	*	.5	*		89.2
TOT OBS: 15850																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.4	2.4	1.1	.0	.0	.0	*	5.8	2.5	.7	2.3	*	.4	*		88.3
06&09	2.2	2.3	1.2	.0	.0	.0	.0	5.7	3.6	.9	1.2	.0	.3	*		88.3
12&15	2.6	2.0	.7	.0	.0	.0	*	5.3	1.7	.0	1.9	.0	.6	*		90.4
18&21	2.5	2.3	.9	.0	.0	.0	*	5.6	3.4	.1	1.2	.0	.6	.1		89.1
TOT PCT	2.5	2.2	1.0	.0	.0	.0	*	5.6	2.7	.4	1.7	*	.5	*		89.1
TOT OBS: 16011																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	3.0	2.5	.1	*	.0		6.1	9.2	6.6	5.2	6.4	6.6	6.0	5.5	5.7	5.5
NE	1.3	15.9	15.7	.6	*	.0		33.5	10.5	32.1	35.9	34.4	35.2	34.4	32.5	32.7	38.4
E	1.4	22.1	21.7	.5	.0	.0		45.7	11.2	46.7	42.4	45.2	44.9	45.4	46.7	46.0	40.7
SE	.6	6.4	4.3	.1	.0	.0		11.4	9.7	11.0	12.8	10.9	8.7	11.4	11.3	12.3	10.1
S	.1	.7	.3	.0	.0	.0		1.0	9.1	1.2	.8	.8	1.5	1.0	1.4	1.0	1.1
SW	.1	.2	.1	*	.0	.0		.3	8.0	.3	.7	.2	.1	.3	.5	.3	.7
W	.1	.2	.1	*	.0	.0		.4	8.5	.4	.6	.4	.7	.2	.6	.3	.2
NW	.1	.4	.2	*	.0	.0		.7	8.1	.7	.4	.8	1.4	.6	.6	.7	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.0	1.2	.9	.8	.6	.9	1.0	1.3
TOT OBS							18886		10.8	4063	803	3765	274	4179	1631	3890	281
TOT PCT	5.0	48.9	44.7	1.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	3.8	.8	*	.0		6.1	9.2	6.4	6.5	5.9	5.7
NE	6.2	22.9	4.4	.1	.0		33.5	10.5	32.7	34.4	33.9	33.0
E	7.8	32.9	5.0	*	.0		45.7	11.2	46.0	45.2	45.8	45.7
SE	2.7	7.8	.9	.0	.0		11.4	9.7	11.3	10.8	11.4	12.1
S	.4	.6	.1	.0	.0		1.0	9.1	1.1	.8	1.1	1.0
SW	.2	.1	*	.0	.0		.3	8.0	.4	.2	.3	.3
W	.2	.2	*	*	.0		.4	8.5	.4	.4	.3	.3
NW	.3	.3	*	*	.0		.7	8.1	.6	.8	.6	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.0	.9	.7	1.0
TOT OBS						18886		10.8	4866	4039	3810	4171
TOT PCT	20.2	68.5	11.2	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	4.0	49.2	44.3	1.3	*	.0	10.7	100.0	4866
06&09	.9	3.0	49.6	45.3	1.1	.0	.0	11.0	100.0	4039
12&15	.7	5.1	50.1	42.7	1.4	.0	.0	10.5	100.0	5810
18&21	1.0	3.9	46.3	47.5	1.3	.0	.0	11.1	100.0	4171
TOT								10.8		18886
PCT	.9	4.1	48.9	44.7	1.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.4	2.5	1.5		4.5
NE	7.4	8.5	11.7	5.8		4.1
E	17.7	13.7	11.3	3.9		3.9
SE	3.9	3.1	2.5	.9		4.3
S	.2	.3	.3	.2		5.6
SW	.1	*	.1	.1		5.1
W	*	.1	.1	.1		4.6
NW	.2	.1	.3	.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.3	.1		3.9
TOT OBS					11256	4.1
TOT PCT	30.8	27.3	29.1	12.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.3	.7	1.0	.3	.2	*	*	.0	4.0	
NE	.2	.2	.6	2.9	4.0	1.6	.8	.1	.1	.1	22.8	
E	.2	.1	.4	2.3	3.3	1.6	.7	.2	.1	.1	37.6	
SE	.1	*	.1	.5	.8	.4	.1	.1	*	*	8.4	
S	*	.0	*	.1	.1	*	*	.0	*	.0	.5	
SW	*	.0	*	*	.1	*	.0	.0	.0	.0	.1	
W	*	*	.0	*	.1	*	.0	.0	.0	.0	.2	
NW	.0	*	*	.1	.1	*	*	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.1	.1	*	*	.0	.0	.0	.6	
TOT PCT	.6	.3	1.5	6.7	9.5	4.0	1.9	.4	.2	.2	74.8	11256 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.3	.4	.4	.4	.4	.4	.4
= OR >5000	.6	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.1	2.5	2.6	2.6	2.6	2.7	2.7	2.7
= OR >2000	5.4	6.4	6.6	6.6	6.6	6.7	6.7	6.7
= OR >1000	12.9	15.5	16.0	16.0	16.1	16.1	16.1	16.1
= OR >600	18.1	22.0	22.7	22.7	22.8	22.9	22.9	22.9
= OR >300	19.0	23.4	24.1	24.2	24.3	24.4	24.4	24.4
= OR >150	19.2	23.6	24.4	24.5	24.6	24.7	24.7	24.7
= OR > 0	19.4	24.0	24.9	25.1	25.2	25.3	25.3	25.3

TOTAL NUMBER OF OBS: 11284

PCT FREQ NH <5/8: 74.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.6	13.9	21.9	19.2	11.9	7.0	6.7	4.8	6.6	.4	11890

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	*	.1	.1	*	*	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.1	*	*	.0	.0	.0	.0	.0	.2	
	PCP	*	.2	.2	.1	.0	.0	*	*	.0	*	.6	
2<5	NO PCP	.1	.3	.7	.2	*	*	*	*	.0	*	1.4	
	TOT %	.1	.5	.9	.3	*	*	*	*	.0	*	1.9	
	PCP	.2	1.2	.9	.2	.1	*	*	.1	.0	*	2.7	
5<10	NO PCP	.9	5.7	6.0	1.3	.2	.1	.1	.1	.0	.1	14.4	
	TOT %	1.1	6.9	6.9	1.5	.3	.1	.1	.2	.0	.1	17.2	
	PCP	.2	.9	.6	.1	*	*	*	*	.0	.0	1.9	
10+	NO PCP	4.7	25.1	37.8	8.9	.6	.1	.2	.5	.0	.6	78.6	
	TOT %	4.8	26.0	38.4	9.0	.7	.2	.2	.5	.0	.6	80.5	
	TOT OBS												15779
	TOT PCT	6.0	33.6	46.4	10.9	1.0	.3	.3	.7	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	.1	*	*	.0	.0	.0	.0	.0		.2	
	11-21	*	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.3	
	0-3	*	*	*	*	.0	.0	.0	.0	.0	*	.1	
1<2	4-10	*	.1	.1	*	*	.0	*	.0	.0		.2	
	11-21	*	.1	.1	*	*	.0	.0	.0	.0		.2	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.2	*	*	.0	*	.0	.0	*	.5	
	0-3	*	*	.1	*	*	*	*	*	.0	*	.2	
2<5	4-10	.1	.3	.4	.1	*	*	*	*	.0		1.0	
	11-21	*	.3	.4	.1	.0	*	*	*	.0		.9	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.6	1.0	.3	*	*	*	*	.0	*	2.2	
	0-3	.1	.2	.2	.1	*	*	*	*	.0	.1	.7	
5<10	4-10	.5	3.0	3.1	.8	.2	.1	.1	.1	.0		7.8	
	11-21	.5	3.4	3.3	.5	.1	*	*	*	.0		7.9	
	22+	*	.2	.2	*	.0	.0	*	*	.0		.5	
	TOT %	1.1	6.8	6.8	1.5	.3	.1	.1	.2	.0	.1	16.8	
	0-3	.3	.9	1.1	.5	.1	*	*	.1	.0	.7	3.7	
10+	4-10	2.3	12.1	18.4	5.2	.4	.1	.1	.3	.0		38.9	
	11-21	2.0	12.2	18.4	3.7	.2	*	*	.1	.0		36.7	
	22+	.1	.4	.3	.1	.0	*	*	.0	.0		.8	
	TOT %	4.7	25.6	38.2	9.4	.7	.2	.2	.5	.0	.7	80.1	
	TOT OBS												17229
	TOT PCT	6.0	33.4	46.2	11.2	1.0	.3	.3	.7	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.1	1.2	6.6	8.8	3.4	1.3	.6	.3	.2	23.0	77.0	2724
06&09	.8	.4	1.1	6.9	9.3	3.4	2.2	.5	.2	.2	24.8	75.2	2862
12&15	.4	.3	1.7	6.4	9.1	4.6	1.8	.3	.1	.1	24.8	75.2	3010
18&21	.6	.4	1.8	6.1	9.4	4.2	1.9	.4	.2	.2	25.2	74.8	3115
TOT													11711
PCT	.6	.3	1.5	6.5	9.1	3.9	1.8	.4	.2	.2	24.5	75.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.7	1.0	3.5	19.5	75.0	4363
06&09	.1	.2	.3	1.8	14.8	82.9	3797
12&15	.1	.2	.3	2.0	18.3	79.2	5318
18&21	*	.1	.4	1.6	14.5	83.4	3914
TOT							17392
PCT	.1	.3	.5	2.2	17.0	79.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	2.3	10.2	14.3	75.6	2613
06&09	.8	2.4	10.6	15.7	73.7	2733
12&15	.4	2.5	10.3	15.6	74.1	2916
18&21	.6	2.9	10.1	16.2	73.7	3022
TOT						11284
PCT	.6	2.5	10.3	15.5	74.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	*	*	*	.0		.1
90/94	.0	.0	*	.2	.7	.3	.1	.1		1.4
85/89	.0	.0	*	.1	1.8	4.6	1.7	.6		8.8
80/84	.0	.0	*	.1	1.9	24.4	31.7	9.2		67.3
75/79	.0	.0	.0	*	*	2.4	11.1	8.6		22.1
70/74	.0	.0	.0	.0	*	*	*	.3		.4
65/69	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL									12183	100.0
PCT	.0	.0	*	.5	4.4	31.8	44.6	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.0	.0	.0	.0	.0	.0
*	.3	.8	.2	*	*	.0	.0	.0	*
.4	2.2	4.8	1.3	.1	*	*	*	.0	.1
3.8	23.2	31.7	7.0	.5	.1	.1	.3	.0	.5
1.8	7.6	9.4	2.4	.3	.1	.1	.3	.0	.2
.1	.1	.1	*	*	*	*	*	.0	*
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6.0	33.4	46.8	10.9	.9	.2	.3	.7	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	84	83	80	77	76	70	80.3	4793
06&09	95	84	82	80	77	75	69	79.5	4062
12&15	95	89	86	82	78	76	68	81.8	5758
18&21	97	91	88	82	78	76	72	82.8	4130
TOT	97	89	86	81	77	76	68	81.1	18743

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.0	24.6	51.0	23.2	85	3093
06&09	.0	.1	.9	21.5	55.4	22.1	85	2714
12&15	.0	.3	3.8	35.9	41.3	18.8	82	3721
18&21	.0	1.6	12.6	44.4	31.0	10.5	78	2764
TOT	0	62	535	3889	5483	2323	83	12292

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	.1	11	.0	.1
11/13	.0	.0	.0	.0	*	*	.2	.2	62	.0	.4
9/10	.0	.0	.0	.0	*	.1	.6	*	98	.0	.7
7/8	.0	.0	.0	.0	*	.8	.5	*	185	.0	1.3
6	.0	.0	.0	*	.1	.9	.1	.0	165	.0	1.2
5	.0	.0	.0	*	.3	1.6	.1	.0	291	.0	2.1
4	.0	.0	.0	*	1.3	1.6	*	.0	415	*	3.0
3	.0	.0	*	.1	2.2	1.5	*	.0	530	*	3.8
2	.0	.0	.0	.3	5.6	.9	*	.0	954	.1	6.7
1	.0	.0	.0	.9	7.6	.5	.0	.0	1257	.3	8.7
0	.0	.0	*	5.0	12.0	.2	.0	.0	2404	.6	16.7
-1	.0	.0	*	7.7	8.2	.1	.0	.0	2229	.5	15.5
-2	.0	.0	*	10.7	4.9	*	.0	.0	2169	.2	15.4
-3	.0	.0	.1	6.6	2.0	*	.0	.0	1201	.1	8.6
-4	.0	.0	.3	5.5	.9	.0	.0	.0	943	*	6.8
-5	.0	.0	.4	2.7	.3	.0	.0	.0	471	*	3.4
-6	.0	.0	.6	1.2	.1	.0	.0	.0	258	*	1.9
-7/-8	.0	.0	.8	.5	.1	.0	.0	.0	189	.0	1.4
-9/-10	.0	*	.3	.1	*	.0	.0	.0	52	.0	.4
-11/-13	.0	*	.1	*	.0	.0	.0	.0	17	.0	.1
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL									13903		
PCT	*	.1	2.6	41.4	45.7	8.3	1.6	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	*	1.2	.3	.0	.0	.0	1.5
3-4	*	.7	1.4	.0	.0	.0	2.1
5-6	.0	.4	1.3	*	.0	.0	1.7
7	.0	.0	.3	*	.0	.0	.3
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	3.3	.1	.0	.0	6.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.1	.0	.0	.0	1.3
1-2	.1	4.9	2.6	.0	.0	.0	7.6
3-4	.1	4.7	7.0	.3	.0	.0	12.0
5-6	.1	1.5	7.2	.2	.0	.0	9.0
7	.0	.2	2.0	.3	.0	.0	2.4
8-9	*	*	.3	.1	.0	.0	.4
10-11	.0	.1	.2	.0	.0	.0	.2
12	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.3	19.2	.9	.0	.0	32.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.9	.2	.0	.0	.0	2.4
1-2	.3	7.8	4.3	.0	.0	.0	12.5
3-4	.1	6.3	11.3	.1	.0	.0	17.8
5-6	.1	1.7	7.9	.2	.0	.0	9.8
7	.0	.2	2.1	.2	.0	.0	2.4
8-9	.0	.1	.3	.1	.0	.0	.4
10-11	.0	*	.1	.0	.0	.0	.1
12	.0	*	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	18.0	26.2	.5	.0	.0	45.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9
1-2	.1	2.8	1.0	.0	.0	.0	3.9
3-4	*	1.9	2.6	*	.0	.0	4.5
5-6	*	.4	1.8	*	.0	.0	2.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.7	6.2	*	.0	.0	12.2

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.0	.2	*	.0	.0	.0	.3
3-4	*	.2	.1	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.7	.3	.0	.0	.0	1.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	*	.1	*	.0	.0	.0	.1
5-6	.0	*	*	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	*	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	*	.1	.1	.0	.0	.0	.2
5-6	.0	*	.0	*	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.3	.2	*	.0	.0	.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	.0	.0	.0	.0	.1	
1-2	*	.2	*	.0	.0	.0	.2	
3-4	*	.1	.2	.0	.0	.0	.3	
5-6	.0	.0	*	*	.0	.0	*	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.4	.2	*	.0	.0	.7	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	4.0	.3	.0	.0	.0	6.0	
1-2	.6	17.3	8.4	.0	.0	.0	26.3	
3-4	.3	14.0	22.6	.4	.0	.0	37.4	
5-6	.1	4.1	18.3	.5	.0	.0	23.0	
7	.0	.3	4.9	.5	.0	.0	5.7	
8-9	*	.1	.8	.2	.0	.0	1.1	
10-11	.0	.1	.3	.0	.0	.0	.4	
12	.0	*	*	*	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3989
TOT PCT	2.8	40.0	55.6	1.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	13.4	22.7	9.1	2.2	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5035	3
6-7	.1	1.4	10.6	12.4	3.5	1.0	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2891	5
8-9	*	.4	1.7	3.2	2.8	.8	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	902	6
10-11	.0	.4	.3	.7	.5	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247	6
12-13	.0	.0	.6	.4	.1	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	5
>13	.0	.0	*	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
INDET	1.6	1.3	1.7	1.0	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	601	3
TOTAL																				9851	4
PCT	4.7	16.8	37.6	27.0	9.6	2.9	.9	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1876-1974

AREA 0003 AMAZON DELTA
1.7N 46.5W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	2	*
89/90	.1	.0	.0	.1	.1	.1	.1	.1	.1	.3	.1	.1	16	.1
87/88	.2	.1	.1	1.4	.4	.5	.3	.2	.1	.5	.3	.4	65	.4
85/86	1.2	3.2	2.7	6.7	6.6	5.1	3.1	1.4	1.2	1.7	2.1	2.2	533	3.0
83/84	17.3	18.1	23.2	33.2	43.2	31.2	18.9	12.5	11.4	13.1	16.7	17.1	3701	21.1
81/82	61.1	57.9	57.5	47.8	42.6	51.0	55.7	41.0	45.4	52.0	55.6	60.9	9187	52.4
79/80	17.9	17.4	14.3	9.0	6.1	11.2	18.9	39.5	37.1	29.3	24.2	17.8	3600	20.5
77/78	2.1	2.6	1.5	1.3	.6	.8	2.9	4.5	4.2	2.7	.8	1.4	374	2.1
75/76	.2	.6	.7	.3	.3	.1	.1	.7	.3	.2	.1	.2	56	.3
73/74	.0	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.1	6	*
71/72	.0	.1	.1	.0	.1	.1	.1	.0	.1	.0	.0	.0	6	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1920	1343	1669	1385	1446	1290	1366	1523	1549	1478	1582	1395	17546	100.0
MEAN	81.5	81.5	81.7	82.3	82.5	82.1	81.6	80.8	80.9	81.2	81.4	81.6	81.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1010	1012	1012	1010	1010	1011	1530
FEB	1011	1012	1010	1010	1012	1012	1010	1011	1011	1304
MAR	1011	1012	1010	1010	1012	1012	1010	1010	1011	1490
APR	1012	1013	1011	1011	1013	1014	1011	1012	1012	1425
MAY	1012	1012	1011	1011	1013	1013	1011	1011	1012	1354
JUN	1013	1013	1013	1014	1014	1014	1012	1013	1013	1316
JUL	1014	1014	1013	1014	1014	1015	1013	1013	1014	1432
AUG	1014	1014	1013	1011	1014	1013	1013	1012	1013	1302
SEP	1013	1013	1012	1011	1014	1014	1012	1012	1013	1437
OCT	1012	1011	1010	1010	1013	1013	1011	1010	1012	1341
NOV	1011	1011	1010	1010	1012	1011	1010	1010	1011	1451
DEC	1011	1010	1010	1009	1012	1011	1010	1009	1011	1381
ANN	1012	1012	1011	1011	1013	1013	1011	1011	1012	16763
OBS	3639	504	3457	268	3799	1285	3531	280		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1003	1006	1008	1010	1011	1012	1014	1018	1020
FEB	1002	1005	1007	1010	1011	1012	1014	1017	1019
MAR	1001	1004	1007	1010	1011	1012	1015	1017	1019
APR	1001	1006	1008	1010	1012	1013	1016	1018	1022
MAY	1002	1006	1009	1011	1012	1013	1015	1018	1020
JUN	1002	1005	1010	1012	1013	1014	1017	1020	1022
JUL	1004	1008	1010	1012	1014	1015	1017	1019	1020
AUG	1001	1005	1009	1012	1013	1015	1016	1019	1022
SEP	1000	1007	1010	1012	1013	1014	1016	1020	1024
OCT	1001	1005	1008	1010	1012	1013	1015	1018	1022
NOV	1001	1005	1007	1009	1011	1012	1014	1015	1018
DEC	1000	1002	1006	1009	1011	1012	1014	1016	1020

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1883-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	5.3	2.0	3.0	.0	.0	.0	.0	9.3	4.7	2.0	.0	.0	1.0	.0		83.1
NE	2.9	1.3	1.6	.0	.0	.0	.0	5.5	3.4	.8	.6	.0	1.0	.0		88.7
E	1.4	1.1	1.0	.0	.0	.0	.0	3.5	2.2	.5	.6	.0	.5	.1		92.7
SE	1.5	.3	.6	.0	.0	.0	.0	2.1	1.1	.3	.0	.0	.1	.0		96.3
S	11.8	.0	.0	.0	.0	.0	.0	11.8	8.8	.0	.0	.0	.0	.0		79.4
SW	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0		92.3
W	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0		66.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	20.0	.0	10.0	.0	.0	.0	.0	30.0	10.0	.0	.0	.0	.0	.0		60.0
TOT PCT	2.1	1.0	1.3	.0	.0	.0	.0	4.2	2.5	.6	.4	.0	.6	.1		91.7
TOT OBS:	1876															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	2.4	.7	1.1	.0	.0	.0	.0	4.2	2.4	.7	.4	.0	.4	.0		91.8
06&09	1.6	1.1	1.4	.0	.0	.0	.0	3.8	2.9	1.6	.0	.0	.9	.0		91.0
12&15	1.3	1.1	1.5	.0	.0	.0	.0	3.7	1.7	.0	.7	.0	.4	.0		93.6
18&21	3.1	1.1	1.5	.0	.0	.0	.0	5.5	3.1	.2	.4	.0	.7	.2		89.9
TOT PCT	2.1	1.0	1.4	.0	.0	.0	.0	4.3	2.5	.6	.4	.0	.6	.1		91.6
TOT OBS:	1891															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	2.0	1.4	*	.0	.0		3.6	9.9	3.2	2.6	5.0	4.6	3.9	3.5	2.7	3.4
NE	1.0	12.2	10.6	.3	.0	.0		24.1	10.9	22.6	32.1	26.9	35.2	25.5	21.1	19.6	31.0
E	1.2	21.7	28.6	.8	*	.0		52.4	11.8	52.8	48.7	51.7	45.4	54.7	53.9	51.4	41.4
SE	.5	6.6	10.6	.2	.0	.0		17.9	12.1	19.2	14.5	14.3	14.8	14.4	20.3	23.7	20.7
S	.1	.4	.1	*	.0	.0		.6	9.3	.7	1.0	.7	.0	.5	1.3	.3	.0
SW	.0	.1	.0	.0	.0	.0		.1	7.8	.2	.0	.0	.0	*	.0	.2	3.4
W	.0	.1	.1	.0	.0	.0		.2	11.3	.0	.0	.2	.0	.3	.0	.6	.0
NW	.1	.3	.2	.0	.0	.0		.5	8.6	1.2	1.0	.4	.0	.1	.0	.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.0	.0	.8	.0	.4	.0	1.0	.0
TOT OBS	78	983	1170	30	1	0	2262		11.5	484	98	481	27	502	159	482	29
TOT PCT	3.4	43.5	51.7	1.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	1.9	.5	.0	.0		3.6	9.9	3.0	5.0	3.8	2.8
NE	3.8	17.9	2.5	.0	.0		24.1	10.9	24.2	27.4	24.5	20.2
E	6.6	38.7	7.0	.1	.0		52.4	11.8	52.1	51.3	54.5	50.8
SE	1.9	13.5	2.5	*	.0		17.9	12.1	18.4	14.4	15.8	23.5
S	.2	.3	.1	.0	.0		.6	9.3	.8	.6	.7	.3
SW	*	.1	.0	.0	.0		.1	7.8	.2	.0	*	.4
W	.1	.2	.0	.0	.0		.2	11.3	.0	.1	.3	.5
NW	.3	.3	.0	.0	.0		.5	8.6	1.2	.4	.1	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.0	.8	.3	1.0
TOT OBS	328	1646	284	4	0	2262		11.5	582	508	661	511
TOT PCT	14.5	72.8	12.6	.2	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1883-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.1	46.6	49.1	1.2	.0	.0	11.3	100.0	582
06&09	.8	2.8	45.9	48.8	1.8	.0	.0	11.4	100.0	508
12&15	.3	3.3	43.6	51.4	1.4	.0	.0	11.5	100.0	661
18&21	1.0	2.5	37.4	57.9	1.0	.2	.0	11.9	100.0	511
TOT	11	67	983	1170	30	1	0	11.5		2262
PCT	.5	3.0	43.5	51.7	1.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.6	1.4	.6		4.8
NE	5.1	6.6	7.4	3.3		4.4
E	18.4	16.9	13.2	5.6		3.7
SE	6.8	5.8	4.0	1.5		3.5
S	.1	.1	.2	.1		5.5
SW	.0	.0	.1	.0		6.0
W	.0	.0	.1	.3		7.6
NW	.2	.1	.2	.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.4	.1		7.1
TOT OBS	439	423	380	165	1407	3.9
TOT PCT	31.2	30.1	27.0	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.1	.6	.3	.1	.0	.0	.0	.0	2.3	
NE	.1	.1	.4	1.7	2.3	1.1	.3	.1	.0	.1	16.3	
E	.3	.1	.5	3.1	3.7	1.9	.8	.1	.1	.1	43.5	
SE	.1	.0	.2	.7	1.0	.3	.4	.0	.0	.1	15.2	
S	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.2	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1	
NW	.0	*	.0	.2	.0	.1	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.3	
TOT OBS	7	3	18	93	107	51	21	3	1	4	1099	1407
TOT PCT	.5	.2	1.3	6.6	7.6	3.6	1.5	.2	.1	.3	78.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	4.6	5.5	5.8	5.8	5.8	5.8	5.8	5.8
* OR >1000	11.0	12.9	13.4	13.4	13.4	13.4	13.4	13.4
* OR >600	16.6	19.4	20.0	20.0	20.0	20.0	20.0	20.0
* OR >300	17.4	20.6	21.2	21.2	21.2	21.2	21.3	21.3
* OR >150	17.6	20.8	21.4	21.4	21.4	21.4	21.5	21.5
* OR > 0	17.7	21.2	21.9	21.9	21.9	21.9	22.0	22.0
TOTAL	248	297	306	306	306	306	308	308

TOTAL NUMBER OF OBS: 1400

PCT FREQ NH <5/8: 78.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.7	13.3	22.3	20.5	12.5	5.1	5.9	3.6	6.5	.4	1514

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1883-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.1	.1	.1	.1	.0	.0	.0	.0	.0	.1	.3	
	NO PCP	.0	.1	.5	*	*	.1	.0	.0	.0	.0	.8	
	TOT %	.1	.2	.6	.1	*	.1	.0	.0	.0	.1	1.1	
5<10	PCP	.2	.7	.6	.2	.1	*	*	.0	.0	.1	1.9	
	NO PCP	.7	3.7	4.6	1.5	.1	.0	*	.4	.0	.0	11.0	
	TOT %	1.0	4.3	5.2	1.7	.1	*	.1	.4	.0	.1	12.9	
10+	PCP	.1	.6	1.2	*	.0	.0	.1	.0	.0	.0	1.9	
	NO PCP	2.9	18.5	45.2	15.8	.3	.1	.1	.3	.0	.4	83.5	
	TOT %	3.0	19.1	46.4	15.9	.3	.1	.2	.3	.0	.4	85.5	
	TOT OBS												1872
	TOT PCT	4.0	23.6	52.6	17.7	.5	.2	.3	.6	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	*	.0	.0	.0	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.2	*	.0	.1	.0	.0	.0		.5	
	11-21	.0	*	.2	.1	*	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.2	.5	.1	*	.1	.0	.0	.0	*	1.1	
5<10	0-3	*	.2	.2	*	.0	.0	.0	*	.0	.1	.6	
	4-10	.5	2.4	2.6	.6	.1	*	.1	.1	.0		6.4	
	11-21	.3	1.7	2.7	1.1	*	.0	.0	.1	.0		6.0	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.9	4.3	5.5	1.8	.1	*	.1	.3	.0	.1	13.2	
10+	0-3	.2	.6	1.0	.4	.0	.0	.0	*	.0	.3	2.8	
	4-10	1.6	9.2	18.6	5.3	.3	*	*	.1	.0		35.2	
	11-21	1.1	8.8	25.9	9.8	*	.0	.1	.1	.0		45.9	
	22+	.0	.2	.8	.1	*	.0	.0	.0	.0		1.1	
	TOT %	2.9	19.0	46.3	15.7	.3	*	.2	.2	.0	.3	85.0	
	TOT OBS												2019
	TOT PCT	3.9	23.6	52.8	17.6	.5	.2	.3	.6	.0	.5	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1883-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.6	.3	1.2	5.4	5.4	2.7	1.5	.9	.0	.0	17.9	82.1	335
06E09	.5	.3	1.1	6.4	7.0	3.8	1.9	.0	.0	.5	21.4	78.6	373
12E15	.0	.0	1.3	7.3	8.6	2.9	1.6	.0	.0	.5	22.1	77.9	385
18E21	.7	.2	1.2	5.7	7.4	4.2	1.0	.0	.2	.0	20.8	79.2	404
TOT	7	3	18	93	107	51	22	3	1	4	309	1188	1497
PCT	.5	.2	1.2	6.2	7.1	3.4	1.5	.2	.1	.3	20.6	79.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.4	.4	.6	1.6	18.3	78.7	507
06E09	.0	.0	.0	1.3	12.7	86.0	473
12E15	.0	.3	.3	.5	11.6	87.2	578
18E21	.2	.2	.2	1.3	11.3	86.8	476
TOT	3	5	6	23	274	1723	2034
PCT	.1	.2	.3	1.1	13.5	84.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.6	2.6	9.1	11.0	79.9	308
06E09	.6	2.0	9.4	13.4	77.2	351
12E15	.0	1.4	9.1	14.1	76.7	361
18E21	.8	2.4	9.2	12.9	77.9	380
TOT	7	29	129	181	1090	1400
PCT	.5	2.1	9.2	12.9	77.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.2	.5	.3	.2	.1	20	1.4
85/89	.0	.0	.0	.2	1.4	4.6	2.0	.4	127	8.6
80/84	.0	.0	.0	.1	1.9	22.5	35.3	10.3	1030	70.1
75/79	.0	.0	.0	.0	.1	2.3	10.1	6.9	285	19.4
70/74	.0	.0	.0	.0	.0	.0	.1	.3	6	.4
TOTAL	0	0	0	7	58	438	700	266	1469	100.0
PCT	.0	.0	.0	.5	3.9	29.8	47.7	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	*	.0	.0	.0	.0	.0	.0
.0	.3	.6	.3	.0	.0	.1	*	.0	.0
.2	1.3	5.0	2.1	.0	.0	.1	*	.0	.0
1.8	16.2	38.9	12.3	.4	.0	.1	.3	.0	.2
1.6	5.5	9.2	2.3	.0	*	.1	.3	.0	.4
.0	.2	.1	.1	.0	.0	.0	.0	.0	.0
3.5	23.6	53.8	17.2	.4	*	.3	.6	.0	.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	89	86	83	80	77	73	70	80.3	578
06E09	84	83	82	80	77	75	70	79.5	510
12E15	92	90	86	82	78	76	71	82.0	653
18E21	95	93	90	82	78	75	74	83.0	499
TOT	95	90	86	81	78	75	70	81.2	2240

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.3	2.2	19.3	53.1	25.1	85	367
06E09	.0	.0	.3	21.6	58.6	19.5	84	343
12E15	.0	.0	3.5	35.0	44.5	17.0	82	429
18E21	.0	1.8	10.0	42.8	35.2	10.3	79	341
TOT	0	7	58	441	707	267	82	1480

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1883-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.2	4	.0	.2
9/10	.0	.0	.0	.0	.1	.9	.1	17	.0	1.0
7/8	.0	.0	.0	.1	.5	.9	.0	25	.0	1.5
6	.0	.0	.0	.1	.9	.1	.0	19	.0	1.1
5	.0	.0	.0	.1	1.9	.1	.0	37	.0	2.2
4	.0	.0	.1	.9	1.8	.0	.1	48	.2	2.7
3	.0	.0	.1	2.6	1.9	.0	.0	78	.0	4.6
2	.0	.0	.2	6.2	.6	.1	.0	121	.1	7.0
1	.0	.0	.5	9.8	.3	.0	.0	179	.0	10.6
0	.0	.0	5.5	14.7	.1	.0	.0	345	.1	20.3
-1	.0	.0	8.1	7.6	.0	.0	.0	265	.0	15.6
-2	.0	.0	10.8	3.7	.0	.0	.0	245	.1	14.4
-3	.0	.1	7.2	.8	.0	.0	.0	137	.0	8.1
-4	.0	.4	4.7	.7	.0	.0	.0	97	.0	5.7
-5	.0	.1	1.7	.0	.0	.0	.0	30	.0	1.8
-6	.0	.5	.5	.1	.0	.0	.0	17	.0	1.0
-7/-8	.0	.4	.6	.1	.0	.0	.0	18	.0	1.1
-9/-10	.0	.3	.1	.1	.0	.0	.0	7	.0	.4
-11/-13	.1	.0	.1	.0	.0	.0	.0	4	.0	.2
TOTAL	2	28	680	804	137	37	6	1694	7	1687
PCT	.1	1.7	40.1	47.5	8.1	2.2	.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.0	.4	.0	.0	.0	1.5
3-4	.0	.6	.4	.0	.0	.0	1.0
5-6	.0	.2	.2	.0	.0	.0	.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.4	.0	.0	.0	3.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.2	.0	.0	.0	1.0
1-2	.0	4.7	5.1	.0	.0	.0	9.8
3-4	.0	5.7	4.7	.1	.0	.0	10.4
5-6	.0	1.5	3.6	.0	.0	.0	5.1
7	.0	.5	.2	.0	.0	.0	.7
8-9	.0	.2	.2	.2	.0	.0	.6
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.4	14.3	.5	.0	.0	28.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.2	.0	.0	.0	1.3
1-2	.4	8.3	9.3	.0	.0	.0	18.0
3-4	.0	6.7	15.2	.4	.0	.0	22.3
5-6	.0	1.9	7.1	.2	.0	.0	9.2
7	.0	.3	.6	.4	.0	.0	1.3
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	18.3	32.8	1.0	.0	.0	52.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.2	.0	.0	.0	1.2
1-2	.0	1.9	1.5	.0	.0	.0	3.5
3-4	.0	1.6	5.5	.0	.0	.0	7.1
5-6	.0	.2	2.6	.0	.0	.0	2.8
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	10.1	.0	.0	.0	14.9

JANUARY

PERIOD: (OVER-ALL) 1963-1973 AREA 0004 FORTALEZA NW .7S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.4	2.9	.6	.0	.0	.0	4.0	
1-2	.4	16.4	16.4	.0	.0	.0	33.1	
3-4	.0	14.7	25.8	.4	.0	.0	40.9	
5-6	.0	4.0	13.6	.2	.0	.0	17.8	
7	.0	.8	1.3	.4	.0	.0	2.5	
8-9	.0	.2	.8	.2	.0	.0	1.3	
10-11	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	39.0	58.7	1.5	.0	.0	100.0	477

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	10.1	22.8	7.9	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	549	3
6-7	.2	1.5	9.6	15.6	3.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	379	4
8-9	.0	.1	1.1	3.2	3.5	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	6
10-11	.0	.6	.2	.9	1.1	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
12-13	.0	.0	.7	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	5
>13	.0	.0	.0	.7	.6	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
INDET	.9	2.0	3.3	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
TOTAL	27	177	467	376	129	49	8	2	0	0	0	0	0	0	0	0	0	0	0	1235	4
PCT	2.2	14.3	37.8	30.4	10.4	4.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.75 40.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.3	2.9	3.2	.0	.0	.0	.6	10.1	.9	.9	.0	.0	1.4		.0	86.7
NE	4.6	3.0	1.4	.0	.0	.0	.1	9.0	5.0	.8	.2	.0	1.4		.0	83.7
E	2.7	1.8	.6	.0	.0	.0	.0	5.1	4.7	.4	.4	.0	.4		.0	88.9
SE	1.9	.5	.8	.0	.0	.0	.0	2.7	2.7	1.1	1.9	.0	.8		.0	90.7
S	.0	13.0	8.7	.0	.0	.0	.0	21.7	13.0	.0	.0	.0	.0		.0	65.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0		.0	73.3
NW	10.6	.0	8.5	.0	.0	.0	.0	10.6	.0	.0	.0	.0	.0		.0	89.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.5	2.1	1.1	.0	.0	.0	.1	6.6	4.3	.6	.5	.0	.9		.0	87.1
TOT OBS:	1730															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.8	2.7	1.1	.0	.0	.0	.2	7.8	3.8	1.3	.7	.0	.7		.0	85.7
06&09	5.3	3.2	1.2	.0	.0	.0	.0	9.2	5.3	1.2	.7	.0	.5		.0	83.0
12&15	2.6	1.0	1.2	.0	.0	.0	.0	4.6	3.2	.0	.2	.0	1.2		.0	90.9
18&21	2.6	1.8	.8	.0	.0	.0	.0	5.1	5.4	.0	.3	.0	1.0		.0	88.2
TOT PCT	3.5	2.1	1.1	.0	.0	.0	.1	6.6	4.3	.6	.5	.0	.9		.0	87.1
TOT OBS:	1752															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	2.9	2.0	.1	.0	.0		5.2	10.3	4.1	6.6	6.8	6.3	4.5	5.4	5.1	11.0
NE	1.4	17.4	16.1	.6	.0	.0		35.5	10.9	34.5	38.7	38.6	19.5	37.8	26.4	35.1	21.0
E	1.1	21.7	22.7	.4	*	.0		46.0	11.4	48.0	40.9	43.5	58.6	45.2	47.8	46.1	53.0
SE	.8	4.7	5.5	.1	.0	.0		11.0	10.9	10.6	11.0	8.6	12.5	11.1	17.2	11.5	15.0
S	.1	.2	.1	.0	.0	.0		.3	7.2	.4	.5	.0	.0	.4	.9	.4	.0
SW	*	*	*	.0	.0	.0		.1	9.1	.0	.0	.0	.0	.3	.0	.1	.0
W	*	.2	.0	.0	.0	.0		.3	5.9	.0	.5	.3	.0	.2	1.4	.1	.0
NW	.1	.5	*	.0	.0	.0		.7	7.4	1.0	.5	.8	.0	.5	.0	.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.4	1.1	1.4	3.1	.0	.7	.9	.0
TOT OBS	99	1001	973	26	1	0	2100		10.9	485	91	433	32	472	138	424	25
TOT PCT	4.7	47.7	46.3	1.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	3.4	.5	*	.0		5.2	10.3	4.5	6.7	4.7	5.4
NE	6.3	25.4	3.8	*	.0		35.5	10.9	35.2	37.3	35.2	34.4
E	7.4	32.1	6.4	.0	*		46.0	11.4	46.9	44.5	45.8	46.5
SE	2.0	7.7	1.3	.0	.0		11.0	10.9	10.6	8.9	12.5	11.7
S	.1	.2	.0	.0	.0		.3	7.2	.4	.0	.5	.3
SW	*	.1	.0	.0	.0		.1	9.1	.0	.0	.2	.1
W	.2	.1	.0	.0	.0		.3	5.9	.1	.3	.5	.1
NW	.4	.3	.0	.0	.0		.7	7.4	1.0	.8	.4	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.4	1.5	.2	.9
TOT OBS	391	1455	252	1	1	2100		10.9	576	465	610	449
TOT PCT	18.6	69.3	12.0	*	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	4.3	49.0	43.9	1.4	.0	.0	10.7	100.0	576
06&09	1.5	2.6	48.4	46.2	1.1	.2	.0	11.0	100.0	465
12&15	.2	4.8	48.4	45.2	1.5	.0	.0	10.9	100.0	610
18&21	.9	2.9	44.3	51.0	.9	.0	.0	11.2	100.0	449
TOT	20	79	1001	973	26	1	0	10.9		2100
PCT	1.0	3.8	47.7	46.3	1.2	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.0	1.5	1.5		5.4
NE	6.9	9.7	12.2	8.2		4.9
E	12.5	13.0	15.3	6.2		4.3
SE	2.9	2.4	2.8	1.2		4.2
S	.0	.1	.0	.1		6.1
SW	.0	.0	.1	.0		5.0
W	.0	.0	.1	.0		5.0
NW	.2	.1	.3	.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.2	.2		4.5
TOT OBS	308	347	426	229	1310	4.6
TOT PCT	23.5	26.5	32.5	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.1	.3	.9	.2	.3	.0	.0	.0	3.0	
NE	.4	.2	.8	4.2	5.0	1.5	.6	.1	.0	.2	24.3	
E	.2	.0	.8	3.1	4.7	1.6	.8	.3	.2	.1	35.2	
SE	.0	.0	.1	.9	1.2	.4	*	.1	.0	*	6.7	
S	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.1	.0	.0	.1	.0	*	.1	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
TOT OBS	7	4	24	111	158	48	23	7	2	4	922	1310
TOT PCT	.5	.3	1.8	8.5	12.1	3.7	1.8	.5	.2	.3	70.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	5.1	6.3	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	14.8	17.6	18.1	18.1	18.2	18.2	18.2	18.2
* OR >600	21.5	25.9	26.6	26.6	26.6	26.6	26.6	26.6
* OR >300	22.6	27.6	28.4	28.4	28.5	28.5	28.5	28.5
* OR >150	22.8	27.9	28.7	28.7	28.8	28.8	28.8	28.8
* OR > 0	23.0	28.2	29.1	29.2	29.2	29.2	29.2	29.2
TOTAL	301	370	381	382	383	383	383	383

TOTAL NUMBER OF OBS: 1310 PCT FREQ NH <5/8: 70.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	12.2	20.0	19.1	13.2	7.4	6.3	6.2	8.9	.5	1398

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	.1	.5	.8	.3	.0	.0	.0	.0	.0	.0	1.8	
	TOT %	.1	.6	1.1	.4	*	.0	.0	.0	.0	.0	2.2	
	PCP	.2	2.0	1.2	.1	*	.0	.1	*	.0	.0	3.6	
5<10	NO PCP	.6	3.6	5.7	1.4	.1	*	*	.1	.0	.1	11.7	
	TOT %	.8	5.6	7.0	1.6	.2	*	.1	.1	.0	.1	15.3	
	PCP	.3	1.1	.9	.1	.0	.0	.0	.1	.0	.0	2.9	
10+	NO PCP	3.6	28.3	37.9	8.6	.1	.1	.1	.6	.0	.6	79.8	
	TOT %	3.9	29.3	38.8	8.7	.1	.1	.1	.6	.0	.6	82.2	
	TOT OBS												1711
	TOT PCT	4.8	35.6	47.0	10.7	.3	.1	.2	.7	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.1	*	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	*	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
	0-3	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.5	.4	.1	*	.0	.0	.0	.0		1.1	
	11-21	.0	.4	.6	.2	.0	.0	.0	.0	.0		1.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.9	1.1	.3	*	.0	.0	.0	.0	.0	2.4	
	0-3	.1	.1	.1	.1	.1	*	*	.1	.0	.1	.6	
5<10	4-10	.4	2.4	3.7	.7	.1	.0	.1	.0	.0		7.2	
	11-21	.3	3.0	3.2	.8	.0	.0	.0	.0	.0		7.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.7	5.6	7.0	1.6	.2	*	.1	.1	.0	.1	15.3	
	0-3	.2	1.2	1.0	.8	*	.0	.0	.1	.0	.9	4.1	
10+	4-10	2.2	13.8	16.8	3.7	.1	.1	.1	.5	.0		37.2	
	11-21	1.6	13.5	19.7	4.4	*	.0	.0	.1	.0		39.4	
	22+	.0	.5	.4	*	.0	.0	.0	.0	.0		.9	
	TOT %	4.1	29.0	37.9	8.9	.2	.1	.1	.6	.0	.9	81.6	
	TOT OBS												1877
	TOT PCT	4.9	35.7	46.2	10.9	.4	.1	.2	.6	.0	1.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	.0	1.8	6.7	10.7	3.1	.6	.3	.0	.3	24.8	75.2	327
06&09	.9	.9	1.5	7.1	11.5	3.6	1.8	.6	.0	.3	28.1	71.9	338
12&15	.0	.3	1.4	9.1	12.7	3.9	1.4	.3	.0	.3	29.4	70.6	361
18&21	.3	.0	2.3	9.3	10.8	3.4	2.8	.9	.6	.3	30.6	69.4	353
TOT	8	4	24	112	158	48	23	7	2	4	390	989	1379
PCT	.6	.3	1.7	8.1	11.5	3.5	1.7	.5	.1	.3	28.3	71.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.4	.6	3.6	18.8	75.6	505
06&09	.0	.2	.5	2.5	16.5	80.3	436
12&15	.0	.0	.2	2.4	13.8	83.6	544
18&21	.0	.0	.0	1.0	12.8	86.2	414
TOT	0	8	6	46	295	1544	1899
PCT	.0	.4	.3	2.4	15.5	81.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.6	11.8	14.1	74.1	305
06&09	.6	3.2	12.7	18.0	69.3	316
12&15	.0	1.7	12.3	18.9	68.8	349
18&21	.0	2.4	12.6	18.8	68.5	340
TOT	6	35	162	230	918	1310
PCT	.5	2.7	12.4	17.6	70.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
90/94	.0	.0	.0	.1	.9	.2	.2	.0	19	1.4
85/89	.0	.0	.0	.1	1.2	4.7	1.0	.4	101	7.4
80/84	.0	.0	.0	.0	1.4	21.1	38.3	9.0	954	69.8
75/79	.0	.0	.0	.0	.0	1.9	10.6	8.0	281	20.6
70/74	.0	.0	.0	.0	.0	.0	.1	.6	10	.7
TOTAL	0	0	0	3	48	382	687	247	1367	100.0
PCT	.0	.0	.0	.2	3.5	27.9	50.3	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
.0	.2	1.1	.1	.0	.0	.0	.0	.0	.0
.3	2.1	3.5	1.4	.1	.0	.0	.1	.0	.0
3.3	25.2	32.8	7.3	.1	.1	.1	.3	.0	.4
.9	9.1	8.8	1.3	.1	.0	.1	.1	.0	.1
.1	.1	.5	*	.0	.0	.0	.0	.0	.0
4.7	36.7	46.7	10.2	.3	.1	.2	.5	.0	.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	83	80	77	76	70	80.3	571
06&09	88	85	82	80	76	74	72	79.7	478
12&15	94	91	87	82	78	75	72	82.0	605
18&21	98	93	88	82	78	74	72	82.7	447
TOT	98	90	86	81	77	75	70	81.2	2101

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.7	18.1	57.9	22.3	85	359
06&09	.0	.0	.3	17.7	60.9	21.1	85	327
12&15	.0	.0	4.5	32.7	45.7	17.1	82	398
18&21	.0	1.0	7.6	43.4	36.5	11.5	79	304
TOT	0	3	48	385	700	252	83	1388

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.75 40.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.3	4	.0	.3
9/10	.0	.0	.0	.2	.1	.3	.1	11	.0	.7
7/8	.0	.0	.0	.0	.7	.8	.1	24	.0	1.5
6	.0	.0	.0	.1	.6	.1	.0	13	.0	.8
5	.0	.0	.0	.4	1.2	.1	.0	25	.0	1.6
4	.0	.0	.1	.9	1.4	.0	.0	38	.0	2.4
3	.0	.0	.1	1.4	1.9	.0	.0	53	.0	3.4
2	.0	.0	.2	5.8	.7	.0	.0	104	.0	6.7
1	.0	.0	.3	8.0	.5	.0	.0	136	.1	8.7
0	.0	.0	2.5	13.1	.1	.0	.0	243	.1	15.6
-1	.0	.0	7.5	10.2	.1	.0	.0	277	.4	17.4
-2	.0	.0	9.8	5.9	.0	.0	.0	244	.0	15.7
-3	.0	.1	7.0	2.8	.0	.0	.0	153	.0	9.8
-4	.0	.3	5.4	.7	.0	.0	.0	99	.0	6.4
-5	.0	.3	2.7	.5	.0	.0	.0	55	.0	3.5
-6	.0	.8	1.5	.1	.0	.0	.0	36	.0	2.3
-7/-8	.0	1.2	.7	.1	.0	.0	.0	31	.0	2.0
-9/-10	.1	.2	.0	.1	.0	.0	.0	6	.0	.4
-11/-13	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	4	44	589	778	112	20	8	1555	8	1547
PCT	.3	2.8	37.9	50.0	7.2	1.3	.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.4	.0	.0	.0	1.2
3-4	.0	.4	.6	.0	.0	.0	.9
5-6	.2	.5	1.0	.0	.0	.0	1.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	2.1	.0	.0	.0	3.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	7.4	6.4	.0	.0	.0	13.8
3-4	.0	6.1	7.6	.2	.0	.0	13.9
5-6	.0	2.1	9.0	.0	.0	.0	11.1
7	.0	.1	1.7	.4	.0	.0	2.1
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.9	24.7	1.1	.0	.0	42.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	8.0	5.0	.0	.0	.0	12.9
3-4	.0	6.2	10.3	.0	.0	.0	16.5
5-6	.2	1.1	7.4	.0	.0	.0	8.6
7	.0	.3	2.5	.2	.0	.0	3.0
8-9	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.2	.4	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	17.0	26.0	.4	.0	.0	43.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.4	1.6	.0	.0	.0	3.0
3-4	.0	1.6	2.4	.0	.0	.0	4.0
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.3	.1	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.3	5.1	.0	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0004 FORTALEZA NW .7S 40.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.0	.3	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	2.8	.0	.0	.0	.0	3.9	
1-2	.2	17.7	13.2	.0	.0	.0	31.1	
3-4	.0	14.2	20.9	.2	.0	.0	35.4	
5-6	.4	3.7	18.3	.0	.0	.0	22.4	
7	.0	.6	4.5	.6	.0	.0	5.7	
8-9	.0	.0	.4	.6	.0	.0	1.0	
10-11	.0	.2	.4	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	39.2	57.7	1.4	.0	.0	100.0	492

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	10.3	20.1	8.8	1.3	.8	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	514	3
6-7	.0	1.7	9.2	15.7	6.5	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	401	5
8-9	.0	.2	1.8	3.8	3.8	1.5	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
10-11	.0	.3	.3	.5	.3	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
12-13	.0	.0	.3	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
>13	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDET	.6	1.6	2.2	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	3
TOTAL	31	165	398	371	149	41	16	4	3	2	0	0	0	0	0	0	0	0	0	1180	4
PCT	2.6	14.0	33.7	31.4	12.6	3.5	1.4	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1862-1974

AREA 0004 FORTALEZA NW
-.75 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	NO SIG WEA
N	3.2	2.7	2.4	.0	.0	.0	.0	8.4	7.4	1.4	.0	.0	1.9		.0	80.9
NE	3.7	4.2	2.1	.0	.0	.0	*	9.5	5.9	.5	.0	.0	.5		.0	83.5
E	2.5	3.0	1.5	.0	.0	.0	.1	6.9	5.3	.8	.5	.0	.5		.0	86.3
SE	6.3	5.2	.7	.0	.0	.0	.0	12.0	3.3	1.4	1.0	.0	1.4		.0	81.3
S	10.1	19.0	5.1	.0	.0	.0	.0	34.2	8.9	.0	.0	.0	.0		.0	57.0
SW	.0	3.7	.0	.0	.0	.0	.0	3.7	18.5	.0	.0	.0	.0		.0	77.8
W	.0	.0	21.1	.0	.0	.0	.0	21.1	28.9	.0	.0	.0	.0		.0	50.0
NW	7.1	8.1	.0	.0	.0	.0	.0	15.2	18.2	.0	.0	.0	4.0		.0	62.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0		.0	93.8
TOT PCT	3.5	3.8	1.8	.0	.0	.0	*	9.0	5.9	.8	.3	.0	.8		.0	83.5
TOT OBS:	2067															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	NO SIG WEA
00&03	3.1	4.2	1.5	.0	.0	.0	.0	8.7	5.4	1.0	.4	.0	1.0		.0	83.8
06&09	3.8	2.3	1.6	.0	.0	.0	.0	7.7	8.4	2.0	.2	.0	.9		.0	81.0
12&15	2.5	3.8	1.8	.0	.0	.0	.2	8.0	4.3	.3	.3	.0	.5		.0	86.7
18&21	5.2	4.8	2.5	.0	.0	.0	.0	11.8	6.2	.0	.2	.0	.8		.0	81.0
TOT PCT	3.6	3.8	1.9	.0	.0	.0	*	9.0	5.9	.8	.3	.0	.8		.0	83.4
TOT OBS:	2081															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	5.9	3.2	.0	.0	.0		9.6	9.5	10.3	9.6	10.5	26.0	8.1	8.2	9.4	7.8
NE	1.5	20.1	16.5	.5	.0	.0		38.5	10.7	39.8	40.6	39.7	42.7	37.3	38.1	36.5	48.4
E	.8	19.3	16.2	.4	.0	.0		36.8	10.9	37.0	38.4	35.8	18.8	40.5	31.9	36.1	25.8
SE	.2	5.5	5.2	.1	.0	.0		11.0	10.9	9.4	9.2	10.3	.0	9.8	17.9	13.1	14.8
S	.1	.6	.4	*	.0	.0		1.2	10.3	.8	.0	.6	4.2	1.3	2.1	1.8	.0
SW	*	.3	.1	.0	.0	.0		.5	7.8	.2	.9	.8	.0	.6	.0	.4	3.1
W	.1	.3	*	.0	.0	.0		.4	7.4	.2	.0	.3	8.3	.4	.6	.5	.0
NW	.1	.9	.2	.0	.0	.0		1.2	8.1	1.3	1.3	.9	.0	1.5	.6	1.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.1	.0	1.2	.0	.5	.6	.9	.0
TOT OBS	102	1332	1055	26	0	0	2515		10.5	557	114	493	24	577	170	548	32
TOT PCT	4.1	53.0	41.9	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	6.3	.5	.0	.0		9.6	9.5	10.2	11.2	8.1	9.3
NE	7.4	27.9	3.3	.0	.0		38.5	10.7	39.9	39.8	37.4	37.1
E	6.2	26.8	3.7	*	.0		36.8	10.9	37.3	35.0	38.5	35.5
SE	1.9	8.0	1.1	.0	.0		11.0	10.9	9.4	9.9	11.6	13.2
S	.3	.7	.2	.0	.0		1.2	10.3	.7	.7	1.5	1.7
SW	.2	.3	.0	.0	.0		.5	7.8	.3	.7	.4	.6
W	.2	.2	.0	.0	.0		.4	7.4	.1	.7	.5	.5
NW	.5	.6	*	.0	.0		1.2	8.1	1.3	.8	1.3	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.9	1.2	.5	.9
TOT OBS	513	1780	221	1	0	2515		10.5	671	517	747	580
TOT PCT	20.4	70.8	8.8	*	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1862-1974

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	3.3	52.0	42.9	.9	.0	.0	10.4	100.0	671
06&09	1.2	2.5	54.7	40.0	1.5	.0	.0	10.5	100.0	517
12&15	.5	4.6	54.1	39.8	1.1	.0	.0	10.3	100.0	747
18&21	.9	2.1	51.0	45.3	.7	.0	.0	10.8	100.0	580
TOT	21	81	1332	1055	26	0	0	10.5		2515
PCT	.8	3.2	53.0	41.9	1.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	2.1	4.7	2.2		5.7
NE	4.9	9.5	17.6	6.8		5.2
E	6.6	10.4	14.3	6.7		4.9
SE	1.5	2.0	4.3	2.0		5.1
S	*	.1	.6	.3		6.2
SW	.0	*	.2	.1		6.7
W	.0	.1	.1	.2		6.6
NW	*	.1	.5	.6		6.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	.3		5.6
TOT OBS	211	371	646	290	1518	5.2
TOT PCT	13.9	24.4	42.6	19.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	1.2	1.7	.5	.3	.0	.1	.0	5.6	
NE	.2	*	1.1	3.7	4.7	1.9	1.2	.1	.2	.0	25.6	
E	.5	.3	1.1	9.6	3.6	1.7	1.2	.0	.0	.1	26.0	
SE	.2	.1	.1	.7	1.3	.7	.4	.1	.0	.0	6.1	
S	.1	*	.0	.1	.1	.1	.1	.0	.0	.0	.6	
SW	.0	*	.0	.0	.1	.0	.1	.0	.0	.0	.1	
W	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
NW	.1	.0	.1	.0	.3	.1	.2	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.7	
TOT OBS	17	8	39	142	180	79	53	3	4	2	991	1518
TOT PCT	1.1	.5	2.6	9.4	11.9	5.2	3.5	.2	.3	.1	65.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.3	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	6.8	9.0	9.1	9.1	9.1	9.1	9.1	9.1
* OR >1000	16.2	20.8	21.1	21.2	21.2	21.2	21.2	21.2
* OR >600	23.1	29.8	30.3	30.4	30.5	30.5	30.5	30.5
* OR >300	24.7	32.1	32.7	32.9	33.1	33.1	33.1	33.1
* OR >150	24.9	32.4	33.3	33.5	33.6	33.6	33.6	33.6
* OR > 0	25.5	33.3	34.3	34.6	34.7	34.7	34.7	34.7
TOTAL	388	506	522	526	528	528	528	528

TOTAL NUMBER OF OBS: 1521 PCT FREQ NH <5/8: 65.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	9.5	18.6	20.3	14.8	9.6	7.1	6.9	10.4 .4	1599

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1862-1974

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	*	.1	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.1	.0	*	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.1	.4	.2	.1	*	.0	.0	*	.0	.0	.8	
	NO PCP	.1	.3	.5	.2	*	*	.0	*	.0	.0	1.2	
	TOT %	.3	.7	.7	.2	.1	*	.0	*	.0	.0	2.0	
5<10	PCP	.4	1.8	1.2	.8	*	.0	.0	.1	.0	.0	4.3	
	NO PCP	1.7	6.8	6.3	1.4	.2	*	.1	.2	.0	*	16.8	
	TOT %	2.0	8.6	7.5	2.2	.3	*	.1	.3	.0	*	21.1	
10+	PCP	.3	1.4	.9	.3	.2	*	.1	.1	.0	.0	3.3	
	NO PCP	7.5	28.0	27.8	7.3	.4	.3	.3	.8	.0	.7	73.0	
	TOT %	7.8	29.4	28.7	7.6	.6	.3	.4	.9	.0	.7	76.3	
	TOT OBS												2051
	TOT PCT	10.1	38.9	37.3	10.0	1.0	.3	.5	1.2	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.0	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.2	*	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.2	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.3	*	.0	.0	.0	.0	.0	.0	.5	
2<5	0-3	*	*	.1	.0	*	*	.0	.0	.0	.0	.2	
	4-10	.2	.5	.3	.1	*	*	.0	*	.0		1.2	
	11-21	*	.2	.3	.1	.0	.0	*	*	.0		.7	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.7	.8	.2	.1	.1	*	*	.0	.0	2.2	
5<10	0-3	*	.4	.2	.0	*	.0	*	*	.0	*	.8	
	4-10	1.5	4.3	3.6	1.0	*	*	.0	.2	.0		10.6	
	11-21	.5	3.6	3.8	1.1	.2	.0	*	.1	.0		9.4	
	22+	.0	.2	.1	.1	.0	.0	.0	.0	.0		.5	
	TOT %	2.0	8.5	7.7	2.2	.3	*	.1	.4	.0	*	21.9	
10+	0-3	.5	1.2	.5	.1	.1	*	.0	*	.0	.8	3.3	
	4-10	4.8	15.1	15.1	4.1	.4	.2	.4	.7	.0		40.8	
	11-21	2.3	12.6	12.4	3.4	.1	.1	.0	.2	.0		31.1	
	22+	.0	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	TOT %	7.6	29.2	28.2	7.7	.6	.3	.4	.9	.0	.8	75.6	
	TOT OBS												2182
	TOT PCT	9.9	38.8	37.1	10.2	1.0	.4	.5	1.3	.0	.8	100.0	

MARCH

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1862-1974

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.8	2.4	8.2	10.3	5.0	1.9	.0	.0	.0	29.7	70.3	377
06&09	1.7	.3	3.1	8.7	13.2	4.8	2.5	.3	.6	.3	35.5	64.5	355
12&15	1.0	1.0	1.7	10.4	11.4	4.7	4.5	.0	.0	.2	35.1	64.9	402
18&21	.7	.0	2.7	8.6	11.7	5.4	4.3	.5	.5	.0	34.2	65.8	444
TOT	17	8	39	142	184	79	53	3	4	2	531	1047	1578
PCT	1.1	.5	2.5	9.0	11.7	5.0	3.4	.2	.3	.1	33.7	66.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.4	.2	3.0	24.6	71.7	561
06&09	.2	.0	1.1	2.6	19.8	76.3	459
12&15	.0	.3	.6	1.2	21.9	76.0	645
18&21	.0	.2	.4	2.3	19.0	78.2	531
TOT	2	5	12	49	471	1657	2196
PCT	.1	.2	.5	2.2	21.4	75.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	4.4	13.8	17.7	68.5	362
06&09	1.8	5.3	15.6	21.8	62.5	339
12&15	1.0	4.3	15.1	20.7	64.2	391
18&21	.7	3.5	13.8	22.6	63.6	429
TOT	17	66	221	316	984	1521
PCT	1.1	4.3	14.5	20.8	64.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	.8	.4	.1	.0	27	1.6
85/89	.0	.0	.0	.2	1.7	5.1	1.3	.1	139	8.3
80/84	.0	.0	.0	.1	1.5	19.5	40.0	7.6	1147	68.7
75/79	.0	.0	.0	.0	.1	1.6	10.1	8.9	345	20.7
70/74	.0	.0	.0	.0	.0	.0	.1	.6	12	.7
TOTAL	0	0	0	10	67	443	863	287	1670	100.0
PCT	.0	.0	.0	.6	4.0	26.5	51.7	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.7	.6	.0	.0	.0	.0	.0	.0
.6	2.3	3.7	1.6	.0	.0	.1	*	.0	.1
6.5	29.0	25.8	5.7	.5	.2	.1	.5	.0	.4
2.6	8.0	6.9	1.9	.3	.1	.1	.3	.0	.3
.0	.1	.3	.1	.1	.0	.0	.1	.0	.0
9.7	39.6	37.4	9.9	.9	.3	.3	.9	.0	1.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	83	81	77	75	74	80.4	668
06&09	87	83	82	80	76	74	74	79.6	521
12&15	94	90	86	82	77	75	73	81.9	739
18&21	94	92	90	82	77	75	73	82.6	577
TOT	94	90	86	81	77	75	73	81.2	2505

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.6	16.4	60.3	21.5	85	438
06&09	.0	.3	1.2	15.4	60.6	22.6	85	345
12&15	.0	.6	3.4	33.2	48.5	14.3	82	497
18&21	.0	1.2	9.7	38.6	39.6	10.9	79	402
TOT	0	10	67	445	873	287	83	1682

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1862-1974

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.1	.4	.2	11	.0	.6
7/8	.0	.0	.2	.2	.7	.0	20	.0	1.1
6	.0	.0	.1	.5	.2	.0	14	.0	.8
5	.0	.1	.0	1.2	.3	.0	27	.0	1.5
4	.0	.0	.5	1.7	.0	.0	40	.0	2.2
3	.0	.0	.8	1.5	.0	.0	41	.0	2.3
2	.0	.3	4.1	1.8	.1	.0	112	.1	6.2
1	.0	.2	7.1	.6	.0	.0	141	.1	7.8
0	.0	2.1	13.7	.6	.0	.0	292	.2	16.2
-1	.0	4.5	12.0	.1	.0	.0	295	.1	16.5
-2	.1	7.8	6.4	.0	.0	.0	255	.0	14.3
-3	.1	7.3	3.2	.0	.0	.0	190	.0	10.6
-4	.2	5.3	1.1	.0	.0	.0	117	.0	6.6
-5	.4	4.7	.4	.0	.0	.0	100	.0	5.6
-6	.7	2.3	.3	.0	.0	.0	58	.0	3.2
-7/-8	1.7	1.2	.1	.0	.0	.0	54	.0	3.0
-9/-10	.7	.1	.0	.0	.0	.0	13	.0	.7
-11/-13	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	72	638	894	145	31	5	1785	6	1779
PCT	4.0	35.7	50.1	8.1	1.7	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	2.4	.4	.0	.0	.0	2.7
3-4	.0	2.7	2.1	.0	.0	.0	4.9
5-6	.0	.2	1.3	.0	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	4.3	.0	.0	.0	10.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.2	.0	.0	.0	2.4
1-2	.2	7.3	3.7	.0	.0	.0	11.2
3-4	.0	8.3	11.0	.0	.0	.0	19.2
5-6	.0	1.7	4.5	.3	.0	.0	6.5
7	.0	.0	3.3	.3	.0	.0	3.6
8-9	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	19.7	22.9	.5	.0	.0	43.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.2	.0	.0	.0	1.9
1-2	.4	7.6	3.5	.0	.0	.0	11.5
3-4	.0	7.2	5.3	.0	.0	.0	12.4
5-6	.0	1.3	4.7	.6	.0	.0	6.6
7	.0	.0	2.4	.2	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	17.7	16.0	.8	.0	.0	34.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.2	.0	.0	.0	.4
1-2	.0	1.8	.8	.0	.0	.0	2.6
3-4	.0	.8	1.7	.0	.0	.0	2.5
5-6	.0	.7	1.0	.0	.0	.0	1.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	4.0	.0	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.9	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.9	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.5	.3	.0	.0	.0	.8	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	5.7	.7	.0	.0	.0	7.2	
1-2	.7	19.5	8.3	.0	.0	.0	28.5	
3-4	.0	19.3	21.3	.0	.0	.0	40.6	
5-6	.0	3.9	11.4	.9	.0	.0	16.2	
7	.0	.0	6.4	.4	.0	.0	6.8	
8-9	.0	.2	.2	.0	.0	.0	.4	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	48.7	48.5	1.3	.0	.0	100.0	456

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	13.1	22.9	6.4	1.8	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	613	3
6-7	.0	1.1	11.3	13.1	4.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	4
8-9	.1	.5	1.3	4.4	3.1	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	5
10-11	.0	.7	.2	.5	1.0	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
12-13	.0	.0	.4	.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
>13	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	.9	2.8	2.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
TOTAL	42	239	498	336	147	31	5	5	2	0	0	0	0	0	0	0	0	0	0	1305	4
PCT	3.2	18.3	38.2	25.7	11.3	2.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1880-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.4	3.7	2.7	.0	.0	.0	.0	11.9	5.0	2.6	.0	.0	.7	.0		80.1
NE	4.9	4.1	1.3	.0	.0	.0	.0	10.0	4.4	1.7	1.4	.0	.4	.0		82.5
E	5.4	4.3	2.0	.0	.0	.0	.0	11.3	4.3	1.4	.1	.0	.6	.0		82.5
SE	7.1	3.2	1.8	.0	.0	.0	.0	12.1	5.0	1.3	.2	.0	.5	.0		80.9
S	16.3	4.7	2.3	.0	.0	.0	.0	23.3	20.2	.0	.0	.0	.0	.0		56.6
SW	10.5	8.8	.0	.0	.0	.0	.0	19.3	3.5	.0	.0	.0	.0	.0		77.2
W	12.1	.0	.0	.0	.0	.0	.0	12.1	18.2	.0	.0	.0	.0	.0		69.7
NW	3.0	4.4	.7	.0	.0	.0	.0	8.1	3.7	3.7	.0	.0	.0	.0		84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.9	5.9	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0		88.2
TOT PCT	5.7	4.1	1.8	.0	.0	.0	.0	11.3	4.8	1.6	.5	.0	.5	.0		81.6
TOT OBS:	1766															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.6	3.3	1.8	.0	.0	.0	.0	11.5	4.8	3.7	.4	.0	.9	.0		79.3
06&09	5.2	4.3	2.1	.0	.0	.0	.0	11.4	6.2	2.6	.0	.0	.2	.0		79.9
12&15	4.4	4.6	1.2	.0	.0	.0	.0	10.0	2.8	.0	.8	.0	.8	.0		85.7
18&21	7.0	4.6	1.9	.0	.0	.0	.0	13.3	5.6	.0	.7	.0	.0	.0		80.4
TOT PCT	5.8	4.2	1.7	.0	.0	.0	.0	11.4	4.7	1.6	.5	.0	.5	.0		81.5
TOT OBS:	1791															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	6.3	3.1	.1	.0	.0		10.9	8.9	11.7	9.9	12.6	9.6	10.1	7.9	11.2	7.6
NE	1.4	17.9	12.6	.9	.0	.0		32.8	10.5	33.4	33.2	33.3	30.8	31.4	30.2	34.3	34.0
E	2.1	18.9	14.9	.8	.0	.0		36.6	10.6	35.7	39.6	35.7	30.8	37.7	40.7	35.6	38.2
SE	.5	5.7	6.5	.4	.0	.0		13.0	11.3	12.1	12.4	10.4	15.4	14.8	16.6	13.6	9.7
S	.2	1.0	.5	.1	.0	.0		1.8	9.3	1.3	2.7	2.1	8.3	2.9	.9	.5	.0
SW	*	.6	.2	.0	.0	.0		.8	7.7	.8	.5	.2	1.3	.6	2.4	.8	4.2
W	*	.3	.1	.0	.0	.0		.4	7.2	.5	.0	.2	2.6	.1	.3	.6	1.4
NW	.2	1.3	.3	.0	.0	.0		1.8	7.6	2.4	1.6	2.0	1.3	1.3	.9	1.8	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.2	.0	3.5	.0	1.1	.0	1.6	2.8
TOT OBS	165	1090	801	45	0	0	2101		10.2	460	91	432	39	451	164	428	36
TOT PCT	7.9	51.9	38.1	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	6.3	.6	.0	.0		10.9	8.9	11.4	12.3	9.5	10.9
NE	8.2	21.2	3.5	*	.0		32.8	10.5	33.4	33.1	31.1	34.3
E	8.0	24.4	4.2	.0	.0		36.6	10.6	36.3	35.3	38.5	35.8
SE	2.7	8.2	2.1	.0	.0		13.0	11.3	12.1	10.8	15.3	13.3
S	.6	1.1	.1	.0	.0		1.8	9.3	1.5	2.7	2.4	.5
SW	.4	.4	.0	.0	.0		.8	7.7	.7	.3	1.1	1.0
W	.3	.1	.0	.0	.0		.4	7.2	.5	.4	.2	.6
NW	.8	.9	*	.0	.0		1.8	7.6	2.3	2.0	1.2	1.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.8	3.2	.8	1.7
TOT OBS	562	1317	221	1	0	2101		10.2	551	471	615	464
TOT PCT	26.7	62.7	10.5	*	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1880-1973

AREA 0004 FORTALEZA NW
3.7S 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	6.2	53.0	36.1	2.9	.0	.0	10.2	100.0	551
06&09	3.2	6.2	48.0	40.1	2.5	.0	.0	10.3	100.0	471
12&15	.8	6.3	53.0	37.9	2.0	.0	.0	10.1	100.0	615
18&21	1.7	5.4	53.0	38.8	1.1	.0	.0	10.1	100.0	464
TOT	38	127	1090	801	45	0	0	10.2		2101
PCT	1.8	6.0	51.9	38.1	2.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	2.5	5.2	2.6		5.3
NE	5.6	6.5	14.6	7.2		5.3
E	5.1	8.6	13.3	8.0		5.2
SE	1.2	2.2	5.1	3.4		5.7
S	.0	.1	1.1	.9		6.8
SW	.0	.1	.2	.4		7.1
W	.0	.0	.2	.3		7.5
NW	.3	.4	.6	.5		5.4
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.7	.4		4.7
TOT OBS	196	279	556	321	1352	5.3
TOT PCT	14.5	20.6	41.1	23.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.3	1.4	1.8	.7	.5	*	.0	.0	7.0	
NE	.4	.1	.4	3.2	5.2	2.0	.8	.2	.0	.1	21.7	
E	.6	.5	1.1	3.5	3.7	2.3	1.1	.2	.1	.2	21.8	
SE	.5	.1	.4	.6	1.5	1.0	.6	.0	.0	.1	7.2	
S	.0	.1	.1	.1	.9	.2	.1	.0	.0	.0	.7	
SW	.0	.0	*	.1	.2	.2	.0	.0	.0	.0	.1	
W	.0	.0	.1	.1	*	.1	.0	.0	.0	.0	.2	
NW	.0	.0	.1	.2	.1	.3	.1	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.3	.1	.3	.0	.0	.0	.0	1.3	
TOT OBS	20	12	33	128	184	94	44	5	1	5	826	1352
TOT PCT	1.5	.9	2.4	9.5	13.6	7.0	3.3	.4	.1	.4	61.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
* OR >3500	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	8.0	10.8	10.9	10.9	11.1	11.1	11.1	11.1
* OR >1000	18.2	23.9	24.2	24.4	24.6	24.6	24.7	24.7
* OR >600	25.2	32.6	33.4	33.8	34.0	34.0	34.0	34.0
* OR >300	27.0	34.8	35.8	36.2	36.4	36.4	36.5	36.5
* OR >150	27.4	35.5	36.6	36.9	37.2	37.2	37.3	37.3
* OR > 0	27.9	36.3	37.5	38.2	38.5	38.5	38.6	38.6
TOTAL	378	493	509	519	523	523	524	524

TOTAL NUMBER OF OBS: 1357 PCT FREQ NH <5/8: 61.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.0	7.9	18.6	19.7	11.4	8.7	11.1	6.5	12.1	1.0	1444

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1880-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	*	.1	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	.2	.1	.0	.1	.0	.0	.0	.0	.0	.5	
1<2	PCP	.1	.2	.2	.1	.0	*	*	.1	.0	.1	.7	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.2	.1	.0	*	*	.1	.0	.1	.8	
2<5	PCP	.2	.3	.4	.1	.1	.1	.0	.1	.0	.0	1.1	
	NO PCP	*	.2	.2	.2	*	.0	.0	.0	.0	.0	.7	
	TOT %	.3	.5	.7	.2	.1	.1	.0	.1	.0	.0	1.9	
5<10	PCP	.6	1.5	1.9	.9	.1	.1	*	*	.0	.0	5.2	
	NO PCP	1.8	3.9	4.4	1.5	.5	.4	.1	.5	.0	.1	13.2	
	TOT %	2.3	5.4	6.3	2.4	.7	.5	.1	.5	.0	.1	18.4	
10+	PCP	.5	1.3	1.3	.3	.1	*	.0	.0	.0	.2	3.8	
	NO PCP	8.3	25.7	27.3	9.2	.8	.3	.3	1.3	.0	1.6	74.7	
	TOT %	8.8	27.0	28.6	9.5	1.0	.3	.3	1.3	.0	1.8	78.4	
	TOT OBS												1758
	TOT PCT	11.5	33.4	36.0	12.2	1.8	.8	.5	1.9	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	*	.1	*	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	*	.2	.1	.0	.1	.0	.0	.0	.0	.0	.4	
1<2	0-3	.1	.1	*	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.2	.0	.0	*	*	.0	.0		.4	
	11-21	.0	.1	.1	.1	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.3	.1	.0	*	*	.1	.0	.1	.9	
2<5	0-3	*	*	*	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.3	.3	.1	.1	.1	.0	.1	.0		1.0	
	11-21	*	.2	.4	*	*	.0	.0	.0	.0		.7	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.5	.8	.3	.1	.1	.0	.1	.0	.0	2.0	
5<10	0-3	.5	.1	.6	.1	.1	.0	.0	.0	.0	.3	1.5	
	4-10	1.3	3.0	2.9	1.0	.4	.3	.1	.4	.0		9.5	
	11-21	.7	2.2	2.8	1.3	.2	.1	*	.1	.0		7.3	
	22+	.0	.1	.2	.1	.0	.0	.0	.0	.0		.4	
	TOT %	2.5	5.3	6.5	2.5	.6	.4	.1	.5	.0	.3	18.8	
10+	0-3	1.0	.9	1.6	.3	.1	*	.1	.2	.0	1.7	5.8	
	4-10	4.9	14.0	14.9	4.5	.5	.1	.2	.9	.0		40.1	
	11-21	2.5	10.7	11.9	4.6	.3	.1	*	.2	.0		30.3	
	22+	.0	.8	.5	.2	.0	.0	.0	.0	.0		1.6	
	TOT %	8.4	26.4	28.9	9.6	1.0	.3	.3	1.3	.0	1.7	77.8	
	TOT OBS												1866
	TOT PCT	11.3	32.7	36.7	12.4	1.8	.8	.4	1.9	.0	2.0	100.0	

APRIL

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1880-1973

AREA 0004 FORTALEZA NW
,75 40,5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.7	.9	2.6	9.6	12.8	5.5	2.0	.6	.0	.9	36.5	63.5	345
06&09	3.0	1.2	2.7	10.7	13.3	9.2	3.8	.0	.0	.0	43.8	56.2	338
12&15	.3	.8	1.9	7.2	14.7	5.0	5.0	.0	.3	.3	35.6	64.4	360
18&21	.8	.6	2.2	9.4	12.2	7.5	1.7	.8	.0	.3	35.5	64.5	361
TOT	20	12	33	129	186	95	44	5	1	5	530	874	1404
PCT	1.4	.9	2.4	9.2	13.2	6.8	3.1	.4	.1	.4	37.7	62.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.2	.8	2.2	24.5	71.8	489
06&09	.0	.0	1.6	1.8	20.0	76.5	434
12&15	.0	.7	.6	2.2	15.8	80.7	588
18&21	.0	.7	.9	1.9	15.6	80.9	429
TOT	2	8	18	39	359	1464	1890
PCT	.1	.4	1.0	2.1	19.0	77.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.5	5.8	16.1	22.1	61.8	330
06&09	2.7	6.4	18.2	26.4	55.3	329
12&15	.3	3.7	12.1	24.7	63.2	348
18&21	.9	4.0	13.7	22.3	64.0	350
TOT	18	67	203	324	830	1357
PCT	1.3	4.9	15.0	23.9	61.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.4	.3	.1	.0	12	.9
85/89	.0	.0	.0	.0	1.0	4.8	2.0	.2	108	7.9
80/84	.0	.0	.0	.0	1.6	20.7	37.3	8.7	933	68.3
75/79	.0	.0	.0	.0	.0	1.4	8.7	11.9	300	22.0
70/74	.0	.0	.0	.0	.0	.0	.1	.9	13	1.0
TOTAL	0	0	0	1	40	371	658	296	1366	100.0
PCT	.0	.0	.0	.1	2.9	27.2	48.2	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.4	.2	.0	.0	.0	.0	.0	.0
.4	2.2	3.5	1.5	.0	.1	.0	.2	.0	.1
7.7	24.4	25.2	7.4	.8	.2	.2	1.4	.0	1.0
3.4	7.1	6.6	2.5	.7	.2	.2	.4	.0	.9
.0	.3	.4	.1	.0	.1	*	.0	.0	.0
11.5	34.4	36.0	11.7	1.5	.6	.5	1.9	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	83	80	77	75	72	80.4	553
06&09	90	84	82	80	76	74	72	79.7	476
12&15	92	90	87	82	77	75	71	82.0	601
18&21	95	91	88	82	77	74	70	82.2	460
TOT	95	89	86	81	77	74	70	81.1	2090

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.7	19.4	52.7	25.3	85	372
06&09	.0	.3	.6	18.5	53.9	26.6	85	319
12&15	.0	.0	3.6	31.0	44.5	20.8	83	384
18&21	.0	.0	4.5	40.2	41.2	14.1	81	311
TOT	0	1	40	375	667	303	83	1386

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1880-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.2	.0	4	.0	.2
7/8	.0	.0	.0	.0	.2	.6	.1	14	.0	.9
6	.0	.0	.0	.1	.3	.1	.0	8	.0	.5
5	.0	.0	.0	.1	.7	.2	.0	18	.0	1.1
4	.0	.0	.1	.5	1.6	.1	.0	36	.0	2.2
3	.0	.0	.0	.4	1.2	.0	.0	25	.0	1.6
2	.0	.1	.1	2.7	1.7	.0	.0	72	.1	4.4
1	.0	.0	.4	5.7	.9	.0	.0	111	.1	6.8
0	.0	.0	1.4	11.8	.3	.1	.0	218	.1	13.5
-1	.0	.0	2.6	12.4	.1	.0	.0	242	.2	14.8
-2	.0	.0	7.3	9.1	.1	.0	.0	266	.1	16.5
-3	.0	.0	7.8	4.8	.1	.0	.0	204	.0	12.7
-4	.0	.2	6.5	2.1	.0	.0	.0	141	.0	8.8
-5	.0	.2	4.3	1.0	.0	.0	.0	89	.0	5.5
-6	.0	.7	2.6	.5	.0	.0	.0	61	.0	3.8
-7/-8	.0	1.7	1.9	.4	.0	.0	.0	66	.0	4.1
-9/-10	.1	.4	.5	.2	.0	.0	.0	20	.0	1.2
-11/-13	.1	.4	.0	.0	.0	.0	.0	8	.0	.5
-14/-16	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	4		568		117		2		9	1598
		63		831		22		1607		
PCT	.2	3.9	35.3	51.7	7.3	1.4	.1	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.2	.2	.0	.0	.0	.9
1-2	.2	4.4	.8	.0	.0	.0	5.4
3-4	.5	2.0	3.7	.0	.0	.0	6.1
5-6	.0	.4	1.3	.0	.0	.0	1.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.0	6.5	.0	.0	.0	14.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	.2	7.7	2.9	.0	.0	.0	10.9
3-4	.2	4.5	10.1	2.0	.0	.0	16.9
5-6	.0	.6	6.0	.2	.0	.0	6.8
7	.0	.2	1.2	.2	.0	.0	1.7
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	15.5	20.4	2.7	.0	.0	39.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3
1-2	.0	3.7	3.4	.0	.0	.0	7.1
3-4	.2	6.0	7.4	.0	.0	.0	13.6
5-6	.0	.6	2.7	.0	.0	.0	3.3
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	11.4	14.9	.0	.0	.0	26.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.2	1.2	2.3	.0	.0	.0	3.7
3-4	.0	.6	3.3	.0	.0	.0	3.8
5-6	.0	.1	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	7.2	.0	.0	.0	9.6

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0004 FORTALEZA NW .7S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.6	.2	.0	.0	1.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.2	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.3	.0	.0	.0	1.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.2	.0	.0	.0	.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.0	1.1	.2	.0	.0	.0	1.4	
3-4	.0	.1	.6	.0	.0	.0	.7	
5-6	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.3	.9	.0	.0	.0	3.4	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	6.1	.2	.0	.0	.0	9.8	
1-2	.7	20.0	9.8	.0	.0	.0	30.6	
3-4	1.2	13.2	25.2	2.0	.0	.0	41.6	
5-6	.0	1.7	12.0	.2	.0	.0	13.9	
7	.0	.2	2.4	.5	.0	.0	3.2	
8-9	.0	.0	.5	.2	.0	.0	.7	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	41.3	50.4	2.9	.0	.0	100.0	409

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	20.1	23.3	6.6	.9	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	675	3
6-7	.0	1.4	9.5	10.7	2.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	4
8-9	.0	1.0	1.8	3.0	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	5
10-11	.0	.3	.6	.2	.7	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
12-13	.0	.0	.7	.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
>13	.0	.0	.0	.2	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	3.5	1.4	1.5	.8	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	2
TOTAL	79	302	469	270	83	32	8	3	2	0	0	0	0	0	0	0	0	0	0	1248	3
PCT	6.3	24.2	37.6	21.6	6.7	2.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1855-1974

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	6.3	1.1	3.9	.0	.0	.0	.0	11.3	7.7	.0	.0	.0	.0	.0		81.0
NE	3.2	2.5	1.3	.0	.0	.0	.0	7.0	4.3	.6	.4	.0	.8	.0		86.8
E	3.8	2.2	1.7	.0	.0	.0	.0	7.8	4.0	.5	.0	.0	1.0	.0		86.7
SE	4.1	3.1	3.3	.0	.0	.0	.0	10.3	6.0	.9	.0	.0	.5	.0		82.3
S	14.6	4.0	1.3	.0	.0	.0	.0	19.9	6.6	1.3	.0	.0	.0	.0		72.1
SW	10.6	4.3	.0	.0	.0	.0	.0	14.9	2.1	.0	.0	.0	.0	.0		83.0
W	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		66.7
NW	10.7	10.7	10.7	.0	.0	.0	.0	32.0	5.3	.0	.0	.0	.0	.0		62.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	3.6	3.6	.0	.0	.0	.0	7.1	3.6	3.6	.0	.0	.0	.0		85.7
TOT PCT	4.5	2.7	2.3	.0	.0	.0	.0	9.4	5.1	.7	.1	.0	.7	.0		84.1
TOT OBS:	1726															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	3.9	2.6	2.6	.0	.0	.0	.0	9.2	5.5	2.2	.2	.0	.0	.0		82.9
06&09	4.5	1.7	3.5	.0	.0	.0	.0	9.7	6.2	.5	.0	.0	.5	.0		83.1
12&15	5.4	3.6	1.0	.0	.0	.0	.0	10.0	3.0	.0	.0	.0	1.6	.0		85.4
18&21	3.8	2.5	2.5	.0	.0	.0	.0	8.6	6.8	.0	.0	.0	.5	.0		84.1
TOT PCT	4.4	2.7	2.3	.0	.0	.0	.0	9.4	5.2	.7	.1	.0	.7	.0		83.9
TOT OBS:	1753															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	2.5	1.5	*	.0	.0		4.5	9.4	4.7	2.9	3.3	2.4	6.1	1.6	5.1	1.9
NE	.8	9.6	4.4	.2	.0	.0		14.9	9.6	14.7	25.5	16.6	19.0	13.3	16.6	12.0	14.4
E	1.3	21.3	19.0	1.0	.0	.0		42.6	11.0	41.2	43.6	48.5	33.3	43.5	40.6	37.4	53.8
SE	1.1	13.5	14.3	.5	.0	.0		29.4	11.2	31.3	22.5	23.0	45.2	28.9	33.0	34.1	26.0
S	.2	2.5	1.4	.1	.0	.0		4.3	10.2	4.5	1.0	3.0	.0	4.8	5.1	5.8	.0
SW	.1	.6	.1	.0	.0	.0		.7	7.0	.4	.5	.4	.0	.9	.0	1.4	3.8
W	.1	.3	.2	*	.0	.0		.6	10.6	.4	1.5	.1	.0	.8	1.0	1.0	.0
NW	.1	.8	.2	.0	.0	.0		1.1	8.1	.7	.5	2.0	.0	.8	1.6	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	2.2	2.0	3.1	.0	1.0	.6	2.3	.0
TOT OBS	135	1122	902	40	0	0	2199		10.5	504	102	458	21	492	157	439	26
TOT PCT	6.1	51.0	41.0	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	2.6	.3	.0	.0		4.5	9.4	4.4	3.3	5.0	4.9
NE	3.8	10.0	1.2	.0	.0		14.9	9.6	16.5	16.7	14.1	12.2
E	8.5	29.2	4.9	*	.0		42.6	11.0	41.6	47.8	42.8	38.3
SE	5.1	20.5	3.7	.0	.0		29.4	11.2	29.8	24.0	29.9	33.7
S	1.4	2.5	.4	.0	.0		4.3	10.2	3.9	2.9	4.9	5.4
SW	.4	.3	.0	.0	.0		.7	7.0	.4	.4	.7	1.5
W	.2	.3	.1	*	.0		.6	10.6	.6	.1	.8	.9
NW	.4	.6	*	.0	.0		1.1	8.1	.7	1.9	1.0	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.1	2.9	.9	2.2
TOT OBS	512	1450	235	2	0	2199		10.5	606	479	649	465
TOT PCT	23.3	65.9	10.7	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1855-1974

AREA 0004 FORTALEZA NW
.85 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	3.6	52.8	39.8	1.7	.0	.0	10.3	100.0	606
06&09	2.9	3.5	56.2	35.5	1.9	.0	.0	10.2	100.0	479
12&15	.9	5.2	49.9	41.8	2.2	.0	.0	10.6	100.0	649
18&21	2.2	4.1	44.9	47.3	1.5	.0	.0	11.0	100.0	465
TOT	43	92	1122	902	40	0	0	10.5		2199
PCT	2.0	4.2	51.0	41.0	1.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	2.2	2.5		5.9
NE	2.2	3.0	5.8	3.1		5.2
E	9.9	12.0	14.8	7.0		4.6
SE	5.8	6.7	10.4	4.8		4.8
S	.7	.7	1.3	1.6		5.6
SW	.0	.1	.3	.4		6.6
W	.0	.1	.1	.3		6.7
NW	.1	.1	.4	.6		6.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.9	.2		4.8
TOT OBS	270	323	495	279	1367	4.9
TOT PCT	19.8	23.6	36.2	20.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.3	.9	1.5	.5	.1	.0	.0	.0	2.5	
NE	.1	.1	.4	1.9	1.9	.6	.3	.0	*	.0	6.7	
E	.3	.3	.8	3.0	6.0	2.3	.7	.1	.2	.4	29.8	
SE	.4	.2	.6	2.6	3.7	1.2	.7	.3	.1	.0	18.1	
S	.3	.1	.1	.8	.5	.1	.1	.0	.0	.0	2.4	
SW	*	.0	.0	.1	.2	.0	.0	.0	.0	.0	.5	
W	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
NW	.0	.1	*	.2	.6	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	1.3	
TOT OBS	15	11	30	137	199	64	27	5	4	5	870	1367
TOT PCT	1.1	.8	2.2	10.0	14.6	4.7	2.0	.4	.3	.4	63.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.5	2.8	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	6.3	7.1	7.4	7.5	7.5	7.5	7.5	7.5
* OR >1000	17.3	20.9	21.6	21.8	22.0	22.2	22.3	22.3
* OR >600	24.6	30.8	31.6	31.9	32.2	32.4	32.5	32.5
* OR >300	26.0	32.9	33.8	34.1	34.4	34.6	34.7	34.7
* OR >150	26.3	33.5	34.6	34.9	35.2	35.4	35.5	35.5
* OR > 0	26.6	34.2	35.6	35.9	36.3	36.5	36.6	36.6
TOTAL	368	472	491	496	501	504	505	505

TOTAL NUMBER OF OBS: 1381 PCT FREQ NH <5/8: 63.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.4	9.6	16.8	17.3	13.7	8.5	7.4	8.4	12.5	.4	1441

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1855-1974

AREA 0004 FORTALEZA NW
.85 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	*	.1	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.1	.1	*	.1	.0	.0	.1	.0	.0	.0	.4	
	PCP	.0	.1	.2	*	.1	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	.5	
	PCP	.0	.2	.5	.2	.2	.1	.0	.0	.0	.0	1.2	
2<5	NO PCP	.0	.1	.2	.4	.0	.0	.1	.0	.0	.0	.8	
	TOT %	.0	.3	.7	.6	.2	.1	.1	.0	.0	.0	1.9	
	PCP	.2	.4	1.4	1.2	.3	.0	.0	.2	.0	.1	3.8	
5<10	NO PCP	.8	2.0	4.4	2.9	.6	.1	.1	.1	.0	.1	11.1	
	TOT %	1.1	2.4	5.8	4.1	.9	.1	.1	.3	.0	.2	14.9	
	PCP	.3	.3	1.1	1.4	.3	*	.0	.1	.0	.1	3.4	
10+	NO PCP	3.7	10.7	35.4	22.8	2.9	.5	.3	.6	.0	1.3	78.3	
	TOT %	3.9	11.1	36.5	24.2	3.2	.5	.3	.7	.0	1.4	81.9	
	TOT OBS												1718
	TOT PCT	5.1	13.9	43.6	29.4	4.3	.7	.5	1.0	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.1	.1	*	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.1	.1	*	.1	.0	.0	.1	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.1	.2	.0	.1	.0	.0	.0	.0		.3	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.0	.2	.5	.4	.1	.1	.1	.0	.0		1.3	
	11-21	.0	.1	.4	.4	.1	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.9	.8	.1	.1	.1	.0	.0	.0	2.3	
	0-3	.1	.1	.1	.1	*	.0	.0	.0	.0	.2	.5	
5<10	4-10	.5	1.2	2.8	1.4	.5	.1	*	.2	.0		6.7	
	11-21	.4	.7	2.4	2.4	.4	.0	.1	.1	.0		6.4	
	22+	.1	.2	.6	.2	.0	.0	.0	.0	.0		1.0	
	TOT %	1.0	2.3	5.8	4.1	.9	.1	.1	.3	.0	.2	14.6	
	0-3	.3	.6	1.1	1.0	.1	.1	*	.1	.0	1.5	4.8	
10+	4-10	2.4	6.5	18.2	11.6	1.8	.4	.1	.6	.0		41.6	
	11-21	1.2	3.6	16.9	11.3	1.1	.1	.1	.1	.0		34.4	
	22+	.0	.0	.6	.4	.1	.0	.0	.0	.0		1.1	
	TOT %	3.8	10.7	36.8	24.3	3.2	.5	.2	.7	.0	1.5	81.8	
	TOT OBS												1851
	TOT PCT	4.9	13.5	44.0	29.6	4.3	.7	.5	1.0	.0	1.6	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1855-1974

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.9	2.3	10.9	16.0	4.3	2.0	.3	.3	.6	38.6	61.4	350
06&09	1.4	.9	1.7	11.3	14.5	4.6	2.6	.3	.3	.0	37.7	62.3	345
12&15	.5	.5	2.5	8.2	12.4	4.9	1.9	.5	.3	.3	32.1	67.9	364
18&21	1.1	.8	2.0	9.6	15.5	4.2	1.1	.3	.3	.6	35.5	64.5	355
TOT	15	11	30	141	206	64	27	5	4	5	508	906	1414
PCT	1.1	.8	2.1	10.0	14.6	4.5	1.9	.4	.3	.4	35.9	64.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	.2	1.0	3.6	17.2	77.2	500
06&09	.2	.5	.2	2.1	16.1	80.8	428
12&15	.2	.4	.6	1.7	14.0	83.2	536
18&21	.0	.5	.2	1.9	10.4	87.0	414
TOT	6	7	10	44	273	1538	1878
PCT	.3	.4	.5	2.3	14.5	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.2	4.9	17.7	21.8	60.5	344
06&09	1.5	5.1	18.0	20.7	61.4	334
12&15	.6	4.0	14.1	19.8	66.1	354
18&21	1.1	4.6	15.2	21.2	63.6	349
TOT	15	64	224	288	869	1381
PCT	1.1	4.6	16.2	20.9	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
90/94	.0	.0	.0	.0	.6	.7	.0	.0	17	1.3
85/89	.0	.0	.0	.1	2.0	7.1	2.0	.5	159	11.7
80/84	.0	.0	.0	.1	2.6	20.4	33.8	9.1	896	65.9
75/79	.0	.0	.0	.0	.0	1.6	9.2	9.6	278	20.5
70/74	.0	.0	.0	.0	.0	.0	.0	.5	7	.5
TOTAL	0	0	0	4	70	405	611	269	1359	100.0
PCT	.0	.0	.0	.3	5.2	29.8	45.0	19.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
.0	.0	.5	.7	.1	.0	.0	.0	.0	.0
.4	1.2	5.4	3.6	.9	.0	.0	.1	.0	.1
3.4	9.0	32.0	17.5	2.0	.2	.4	.6	.0	.7
1.8	3.1	6.9	5.0	1.7	.4	.1	.6	.0	1.0
.0	.0	.3	.2	.0	.0	.0	.1	.0	.0
5.6	13.3	45.1	27.1	4.7	.6	.5	1.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	83	81	77	75	73	80.5	596
06&09	85	84	82	80	76	74	70	79.8	482
12&15	91	88	86	82	77	75	72	82.1	629
18&21	98	93	89	82	77	75	74	82.9	453
TOT	98	90	86	81	77	75	70	81.3	2160

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.9	23.1	49.6	25.3	84	363
06&09	.0	.3	.9	18.0	54.9	25.9	85	317
12&15	.0	.0	5.3	34.1	41.7	18.9	82	396
18&21	.0	1.0	12.7	43.8	33.7	8.8	78	306
TOT	0	4	70	410	622	276	82	1382

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1855-1974

AREA 0004 FORTALEZA NW
.85 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	3	.0	.2
9/10	.0	.0	.0	.0	.0	.3	.1	6	.0	.4
7/8	.0	.0	.0	.0	.2	1.0	.0	19	.0	1.2
6	.0	.0	.0	.0	.6	.2	.0	13	.0	.8
5	.0	.0	.0	.1	1.1	.2	.0	21	.0	1.3
4	.0	.0	.0	.5	2.1	.0	.0	41	.0	2.6
3	.0	.0	.1	1.0	2.4	.1	.0	57	.0	3.7
2	.0	.0	.2	4.0	2.4	.0	.0	104	.0	6.7
1	.0	.0	.3	5.8	1.1	.0	.0	112	.0	7.2
0	.0	.0	1.5	12.5	.4	.0	.0	225	.0	14.4
-1	.0	.1	1.9	11.3	.2	.0	.0	211	.0	13.5
-2	.0	.1	6.6	8.8	.1	.0	.0	243	.0	15.6
-3	.0	.0	7.8	3.4	.0	.0	.0	175	.1	11.1
-4	.0	.2	7.6	1.7	.0	.0	.0	147	.0	9.4
-5	.0	.5	4.1	.6	.0	.0	.0	81	.0	5.2
-6	.0	.6	2.2	.0	.0	.0	.0	44	.0	2.8
-7/-8	.1	1.1	1.5	.0	.0	.0	.0	41	.0	2.6
-9/-10	.0	.8	.1	.0	.0	.0	.0	14	.0	.9
-11/-13	.0	.2	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1		528		166		6		1	1560
		55		777		28		1561		
PCT	.1	3.5	33.8	49.8	10.6	1.8	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.1
1-2	.2	2.7	.6	.0	.0	.0	3.5
3-4	.0	.2	1.3	.0	.0	.0	1.5
5-6	.0	.3	.6	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	2.5	.0	.0	.0	7.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	.9
1-2	.7	3.7	2.9	.0	.0	.0	7.3
3-4	.0	1.7	2.4	.2	.0	.0	4.3
5-6	.0	.9	1.5	.1	.0	.0	2.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.1	7.8	.3	.0	.0	15.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.6	.2	.0	.0	.0	3.2
1-2	.6	8.3	5.8	.0	.0	.0	14.8
3-4	.0	5.3	9.7	.0	.0	.0	15.0
5-6	.0	2.3	5.7	.6	.0	.0	8.6
7	.0	.0	.7	.3	.0	.0	1.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	18.5	22.5	.9	.0	.0	42.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	4.4	3.5	.0	.0	.0	7.9
3-4	.2	4.4	7.8	.0	.0	.0	12.4
5-6	.2	.7	2.1	.1	.0	.0	3.1
7	.0	.0	.6	.7	.0	.0	1.3
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.7	14.4	1.0	.0	.0	26.6

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.1	.1	.0	.0	.0	.0	.1
1-2	.0	.9	.4	.0	.0	.0	1.2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.6	.2	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	1.2	.4	.0	.0	3.3	.1	.5	.2	.0	.0	.0	.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.2	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.2	.2	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	.4	.0	.0	.0	.0	.7	.0	1.2	.0	.0	.0	.0	1.2	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	6.4	.2	.0	.0	.0	9.5	
1-2	1.9	21.8	13.3	.0	.0	.0	37.1	
3-4	.2	11.7	21.6	.4	.0	.0	33.9	
5-6	.2	4.2	10.0	.8	.0	.0	15.3	
7	.0	.0	1.7	1.1	.0	.0	2.8	
8-9	.0	.0	1.3	.2	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	44.1	48.1	2.5	.0	.0	100.0	472

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	18.5	21.6	6.8	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	616	3
6-7	.0	2.3	10.5	14.6	1.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	352	4
8-9	.2	.4	2.7	3.6	1.9	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	5
10-11	.0	.7	1.0	.3	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
12-13	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
INDET	1.9	.7	1.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	2
TOTAL	61	267	439	315	71	23	5	2	0	0	0	0	0	0	0	0	0	0	0	1183	4
PCT	5.2	22.6	37.1	26.6	6.0	1.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	7.1	.0	.0	.0	.0	.0	7.1	7.1	.0	.0	.0	.0		.0	85.7
NE	1.9	3.1	.0	.0	.0	.0	.0	5.0	2.2	1.3	.0	.0	.0		.0	91.5
E	1.2	1.7	.4	.0	.0	.0	.0	3.3	1.8	.5	.0	.0	.3		.1	93.9
SE	1.1	2.1	.6	.0	.0	.0	.0	3.8	3.7	.8	.0	.0	.2		.0	91.5
S	3.6	.8	.0	.0	.0	.0	.0	4.4	1.9	.0	.0	.0	.0		.0	93.7
SW	23.8	.0	.0	.0	.0	.0	.0	23.8	.0	.0	.0	.0	.0		.0	76.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
NW	21.1	.0	.0	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0		.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.4	1.9	.5	.0	.0	.0	.0	3.8	2.7	.7	.0	.0	.2		.1	92.6
TOT OBS:	1687															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	1.7	1.0	.0	.0	.0	.0	5.3	2.9	1.2	.0	.0	.2		.2	90.1
06&09	1.5	1.8	.5	.0	.0	.0	.0	3.8	3.3	1.5	.0	.0	.3		.0	91.2
12&15	1.0	1.6	.2	.0	.0	.0	.0	2.8	2.2	.0	.0	.0	.0		.0	94.9
18&21	1.0	2.6	.3	.0	.0	.0	.0	3.9	2.3	.0	.3	.0	.5		.0	93.1
TOT PCT	1.5	1.9	.5	.0	.0	.0	.0	3.9	2.7	.6	.1	.0	.2		.1	92.4
TOT OBS:	1695															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.7	*	.0	.0	.0		.8	6.7	.6	1.3	.9	2.9	.7	1.0	.2	2.8
NE	.0	2.5	2.0	.1	.0	.0		4.6	10.9	5.6	5.2	5.6	.7	3.3	4.6	3.9	6.3
E	1.1	16.4	24.1	.9	.0	.0		42.6	12.2	42.1	45.1	46.5	51.4	42.3	39.2	38.4	51.4
SE	.7	16.0	27.3	.8	.0	.0		44.8	12.6	44.6	40.6	39.4	40.0	46.6	50.0	48.8	36.8
S	.1	2.2	3.4	.1	.0	.0		5.9	12.1	5.2	6.5	5.6	5.0	6.1	4.5	7.5	2.8
SW	*	.2	.2	.0	.0	.0		.4	9.8	.4	.0	.5	.0	.2	.0	.7	.0
W	.0	.1	.0	.0	.0	.0		.1	5.0	.0	.0	.0	.0	.1	.3	.1	.0
NW	.0	.3	.0	.0	.0	.0		.3	6.3	.6	.0	.0	.0	.4	.3	.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.9	1.3	1.5	.0	.2	.0	.0	.0
TOT OBS	53	760	1127	36	0	0	1976		12.2	433	77	408	35	441	146	400	36
TOT PCT	2.7	38.5	57.0	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	.3	.0	.0	.0		.8	6.7	.7	1.1	.8	.4
NE	1.1	2.8	.7	.0	.0		4.6	10.9	5.5	5.2	3.7	4.1
E	4.6	30.8	7.0	*	.0		42.6	12.2	42.5	46.9	41.6	39.5
SE	4.2	31.7	8.9	*	.0		44.8	12.6	44.0	39.4	47.4	47.8
S	.7	4.2	.9	.0	.0		5.9	12.1	5.4	5.5	5.7	7.1
SW	.1	.3	.0	.0	.0		.4	9.8	.3	.5	.1	.6
W	.1	.0	.0	.0	.0		.1	5.0	.0	.0	.2	.1
NW	.3	.1	.0	.0	.0		.3	6.3	.5	.0	.4	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	1.0	1.4	.2	.0
TOT OBS	239	1387	349	1	0	1976		12.2	510	443	587	436
TOT PCT	12.1	70.2	17.7	.1	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	1.6	42.0	53.5	2.0	.0	.0	11.8	100.0	510
06&09	1.4	1.8	40.9	55.1	.9	.0	.0	12.0	100.0	443
12&15	.2	3.1	35.1	58.9	2.7	.0	.0	12.4	100.0	587
18&21	.0	1.6	36.5	60.6	1.4	.0	.0	12.5	100.0	436
TOT	12	41	760	1127	36	0	0	12.2		1976
PCT	.6	2.1	38.5	57.0	1.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.2	.0		4.5
NE	2.1	1.1	1.0	.4		3.4
E	17.3	12.9	10.6	3.2		3.5
SE	13.8	13.2	13.5	3.5		3.9
S	2.1	1.4	1.6	.8		4.0
SW	.1	.0	.1	.2		5.7
W	.0	.0	.0	.0		.0
NW	.0	*	.2	.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.0	.1		1.7
TOT OBS	484	387	367	111	1349	3.7
TOT PCT	35.9	28.7	27.2	8.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
NE	.0	.0	.2	.2	.2	.1	.0	.0	.0	.0	3.8	
E	.1	.0	.4	1.7	2.8	1.9	.3	.1	.0	.1	36.6	
SE	*	.0	.5	1.7	4.4	2.3	.4	.1	.0	.1	34.5	
S	.0	.0	.1	.5	.8	.2	.1	.0	.0	.0	4.2	
SW	.0	.1	.0	*	.0	.1	.0	.0	.0	.0	.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.4	
TOT OBS	2	1	16	58	112	65	11	3	0	2	1079	1349
TOT PCT	.1	.1	1.2	4.3	8.3	4.8	.8	.2	.0	.1	80.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	4.5	5.6	6.1	6.1	6.1	6.1	6.1	6.1
* OR >1000	11.0	13.9	14.4	14.4	14.4	14.4	14.4	14.4
* OR >600	14.2	18.2	18.7	18.7	18.7	18.7	18.7	18.7
* OR >300	15.1	19.4	19.9	19.9	19.9	19.9	19.9	19.9
* OR >150	15.1	19.4	20.0	20.0	20.0	20.0	20.0	20.0
* OR > 0	15.1	19.5	20.0	20.0	20.0	20.1	20.1	20.1
TOTAL	204	263	270	270	270	271	271	271

TOTAL NUMBER OF OBS: 1348

PCT FREQ NH <5/8: 79.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.6	16.4	24.2	19.3	12.4	6.6	5.2	3.2	5.0	.1	1390

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.2	*	*	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	.2	.1	*	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	.0	.1	.7	.6	*	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.1	.9	.7	.1	.0	.0	.0	.0	.0	1.8	
	PCP	.0	*	.6	.9	.1	.1	.0	.1	.0	.0	1.8	
5<10	NO PCP	.2	.8	3.8	4.2	.4	*	.0	.0	.0	.0	9.5	
	TOT %	.2	.9	4.4	5.2	.5	.1	.0	.1	.0	.0	11.3	
	PCP	*	.2	.5	.7	.1	.0	.0	.0	.0	.0	1.5	
10+	NO PCP	.4	3.6	37.9	37.7	4.6	.2	.0	.2	.0	.5	85.1	
	TOT %	.5	3.8	38.4	38.4	4.7	.2	.0	.2	.0	.5	86.6	
	TOT OBS												1686
	TOT PCT	.6	4.7	44.0	44.2	5.4	.3	.0	.3	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.2	.1	*	.0	.0	.0	.0		.3	
	11-21	.0	*	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.4	.1	*	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.0	.1	.4	.4	*	.0	.0	.0	.0		.9	
	11-21	.0	.0	.4	.3	*	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.9	.7	.1	.0	.0	.0	.0	.0	1.9	
	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.2	
5<10	4-10	.1	.2	1.6	1.5	.1	*	.0	.1	.0		3.6	
	11-21	*	.7	2.6	3.2	.4	.1	.0	.0	.0		7.0	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0		.6	
	TOT %	.2	.8	4.5	5.1	.5	.1	.0	.1	.0	.1	11.3	
	0-3	.0	.0	1.1	.7	.1	*	.0	.0	.0	.6	2.4	
10+	4-10	.5	2.2	14.8	14.4	2.1	.1	.0	.2	.0		34.4	
	11-21	.0	1.4	20.7	23.2	2.8	.1	.0	.0	.0		48.2	
	22+	.0	.1	.4	.4	.1	.0	.0	.0	.0		1.0	
	TOT %	.5	3.7	37.0	38.7	5.1	.2	.0	.2	.0	.6	86.0	
	TOT OBS												1800
	TOT PCT	.7	4.7	42.9	44.7	5.8	.3	.0	.3	.0	.6	100.0	

JUNE

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.9	4.0	6.5	4.3	1.2	.6	.0	.3	17.9	82.1	324
06&09	.3	.0	1.4	3.8	9.5	3.8	1.2	.3	.0	.0	20.2	79.8	346
12&15	.0	.0	.6	5.1	9.9	4.2	.0	.0	.0	.0	19.7	80.3	355
18&21	.3	.3	1.7	3.9	6.4	6.4	.8	.3	.0	.3	20.4	79.6	357
TOT	2	1	16	58	112	65	11	4	0	2	271	1111	1382
PCT	.1	.1	1.2	4.2	8.1	4.7	.8	.3	.0	.1	19.6	80.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.7	1.5	3.3	15.1	79.4	456
06&09	.0	.0	.2	1.9	10.7	87.1	412
12&15	.0	.2	.2	.9	11.4	87.3	528
18&21	.5	.0	.0	1.5	8.7	89.3	412
TOT	2	4	9	34	209	1550	1808
PCT	.1	.2	.5	1.9	11.6	85.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.9	6.6	12.9	80.4	317
06&09	.3	1.8	6.5	14.8	78.6	337
12&15	.0	.6	6.9	14.1	79.0	348
18&21	.3	2.3	7.8	13.6	78.6	346
TOT	2	19	94	187	1067	1348
PCT	.1	1.4	7.0	13.9	79.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	2	.2
90/94	.0	.0	.1	.1	1.0	.7	.2	.1	27	2.1
85/89	.0	.0	.0	.4	2.4	5.4	1.8	.7	137	10.8
80/84	.0	.0	.0	.1	2.3	25.2	30.4	8.2	842	66.1
75/79	.0	.0	.0	.0	.0	3.1	12.4	5.1	263	20.7
70/74	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	1	8	74	439	570	181	1273	100.0
PCT	.0	.0	.1	.6	5.8	34.5	44.8	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
	.1	*	.6	1.0	.3	.0	.0	.0	.0	.1
	.1	.5	4.9	4.8	.5	.0	.0	.0	.0	.0
	.5	3.5	30.4	28.1	3.1	.1	.0	.2	.0	.2
	.1	1.1	9.3	8.8	.9	.3	.0	.2	.0	.1
	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
	.7	5.2	45.1	43.0	4.8	.4	.0	.4	.0	.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	83	80	77	76	74	80.2	502
06&09	90	83	82	80	77	75	70	79.6	434
12&15	95	90	87	82	78	76	74	82.2	582
18&21	95	93	90	83	79	75	74	83.5	432
TOT	95	90	87	81	78	75	70	81.4	1950

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.9	25.2	57.0	16.8	84	321
06&09	.0	.0	.7	22.9	59.2	17.1	84	292
12&15	.0	1.1	3.7	41.8	38.4	15.1	81	378
18&21	.0	1.8	19.4	47.2	24.3	7.4	76	284
TOT	0	9	74	440	570	182	81	1275

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.1	.0	.2	.2	8	.0	.6
9/10	.0	.0	.0	.1	.2	.7	.1	16	.0	1.1
7/8	.0	.0	.0	.0	.6	1.2	.0	26	.0	1.8
6	.0	.0	.0	.1	1.2	.1	.0	20	.0	1.4
5	.0	.0	.0	.4	1.8	.2	.0	35	.0	2.4
4	.0	.0	.0	1.8	2.1	.0	.0	56	.0	3.9
3	.0	.0	.1	1.9	1.9	.0	.0	57	.0	3.9
2	.0	.0	.2	4.8	1.2	.0	.0	90	.0	6.2
1	.0	.0	.5	8.0	.6	.0	.0	131	.0	9.0
0	.0	.0	4.5	12.5	.1	.0	.0	249	.0	17.1
-1	.0	.0	5.4	7.1	.2	.0	.0	185	.1	12.7
-2	.0	.0	11.6	4.3	.1	.0	.0	234	.0	16.1
-3	.0	.1	8.0	2.0	.0	.0	.0	147	.0	10.1
-4	.0	.1	5.7	1.1	.0	.0	.0	101	.0	7.0
-5	.0	.3	3.0	.3	.0	.0	.0	52	.0	3.6
-6	.0	.4	.7	.1	.0	.0	.0	18	.0	1.2
-7/-8	.0	.9	.6	.1	.0	.0	.0	23	.0	1.6
-9/-10	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	29	585	652	145	34	6	1452	1	1451
PCT	.1	2.0	40.3	44.9	10.0	2.3	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.7	.7	.0	.0	.0	2.4
3-4	.0	.2	.3	.0	.0	.0	.4
5-6	.0	.4	.3	.0	.0	.0	.6
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.6	.2	.0	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.4	11.1	5.0	.0	.0	.0	16.5
3-4	.0	6.0	11.5	.2	.0	.0	17.6
5-6	.4	1.5	4.1	.2	.0	.0	6.2
7	.0	.6	2.7	.0	.0	.0	3.2
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	20.6	24.2	.4	.0	.0	46.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	.2	8.5	4.7	.0	.0	.0	13.5
3-4	.0	3.1	11.5	.1	.0	.0	14.7
5-6	.0	1.6	8.5	.4	.0	.0	10.6
7	.0	.1	2.7	.0	.0	.0	2.7
8-9	.0	.0	.3	.2	.0	.0	.5
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.6	27.9	.7	.0	.0	43.6

JUNE

PERIOD: (OVER-ALL) 1963-1973 AREA 0004 FORTALEZA NW .7S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.3	.6	.0	.0	.0	.9
3-4	.0	.5	1.7	.0	.0	.0	2.2
5-6	.0	.4	1.0	.0	.0	.0	1.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	3.7	.0	.0	.0	5.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	2.8	.0	.0	.0	.0	3.7	
1-2	.6	21.6	11.0	.0	.0	.0	33.3	
3-4	.0	10.0	25.3	.2	.0	.0	35.5	
5-6	.4	3.9	13.9	.6	.0	.0	18.8	
7	.0	.6	6.1	.2	.0	.0	6.9	
8-9	.0	.0	1.1	.2	.0	.0	1.3	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	39.0	57.8	1.3	.0	.0	100.0	462

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	14.5	21.8	8.8	2.7	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	583	3
6-7	.0	3.4	12.6	12.8	2.5	1.1	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	386	4
8-9	.2	.3	1.4	3.0	2.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	5
10-11	.0	.3	.3	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
12-13	.0	.0	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	1.2	.6	1.1	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	3
TOTAL	36	219	431	303	94	47	15	3	0	0	1	0	0	0	0	0	0	0	0	1149	4
PCT	3.1	19.1	37.5	26.4	8.2	4.1	1.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1862-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.8	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.0	.0		.0	98.7
E	.8	.9	.5	.0	.0	.0	.1	2.4	.7	.3	1.4	.0	.1		.0	95.2
SE	.9	1.4	1.1	.0	.0	.0	.0	3.4	1.3	.0	.4	.0	.2		.0	94.7
S	2.8	3.4	4.0	.0	.0	.0	.0	7.4	2.8	.0	.0	.0	1.9		.0	87.9
SW	.0	11.8	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0		.0	88.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0		.0	93.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0		.0	95.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.0	1.3	1.0	.0	.0	.0	.1	3.1	1.1	.2	.8	.0	.2		.0	94.7
TOT OBS:	1882															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.5	.9	.9	.0	.0	.0	.2	2.3	.7	.5	.9	.0	.0		.0	95.9
06&09	.9	.4	.4	.0	.0	.0	.0	1.7	1.1	.0	.7	.0	.2		.0	96.3
12&15	1.5	1.9	1.1	.0	.0	.0	.0	4.4	1.1	.0	1.3	.0	.4		.0	92.7
18&21	.8	2.3	1.3	.0	.0	.0	.0	4.2	1.3	.2	.2	.0	.2		.0	93.9
TOT PCT	.9	1.4	.9	.0	.0	.0	.1	3.2	1.1	.2	.8	.0	.2		.0	94.6
TOT OBS:	1896															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.3	*	*	.0	.0		.4	7.2	.2	.0	.5	.0	.6	.3	.3	.0
NE	.1	1.8	1.6	.1	.0	.0		3.6	11.2	3.3	5.1	5.1	3.4	3.4	3.7	2.5	3.3
E	1.0	12.6	26.6	1.2	.0	.0		41.4	13.1	45.7	49.8	48.2	45.5	38.2	39.0	32.8	37.2
SE	.6	12.5	32.6	3.0	*	.0		48.7	14.2	46.2	39.6	40.2	36.4	51.6	50.8	59.1	44.4
S	*	1.6	2.2	.2	.0	.0		4.1	13.1	3.1	.9	4.5	5.7	4.8	3.0	4.6	6.1
SW	*	.1	.4	.0	.0	.0		.5	11.5	.4	1.9	.5	.6	.5	.8	.2	2.2
W	.0	.2	.6	.0	.0	.0		.8	13.5	.5	1.6	.5	7.4	.8	1.6	.2	1.7
NW	*	*	.3	.0	.0	.0		.4	12.2	.1	1.2	.3	1.1	.0	.8	.3	5.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.4	.0	.2	.0	.2	.0	.0	.0
TOT OBS	46	673	1482	103	1	0	2305		13.5	486	108	480	44	489	157	496	45
TOT PCT	2.0	29.2	64.3	4.5	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.1	*	.0	.0		.4	7.2	.2	.5	.5	.3
NE	.5	2.7	.4	.0	.0		3.6	11.2	3.6	4.9	3.5	2.6
E	3.1	29.0	9.3	*	.0		41.4	13.1	46.5	47.9	38.4	33.1
SE	2.7	30.4	15.2	.3	.0		48.7	14.2	45.0	39.9	51.4	57.9
S	.4	2.7	1.0	.0	.0		4.1	13.1	2.7	4.6	4.3	4.8
SW	.1	.3	.1	.0	.0		.5	11.5	.7	.5	.6	.4
W	*	.5	.2	.0	.0		.8	13.5	.7	1.0	1.0	.3
NW	*	.3	*	.0	.0		.4	12.2	.3	.4	.2	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.3	.2	.2	.0
TOT OBS	167	1524	606	8	0	2305		13.5	594	524	646	541
TOT PCT	7.2	66.1	26.3	.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1862-1973

AREA 0004 FORTALEZA NW
,7S 40.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	2.7	31.5	62.0	3.4	.2	.0	13.0	100.0	594
06&09	.2	1.5	33.8	62.0	2.5	.0	.0	13.1	100.0	524
12&15	.2	2.3	27.9	63.3	6.3	.0	.0	13.7	100.0	646
18&21	.0	.6	23.8	70.2	5.4	.0	.0	14.3	100.0	541
TOT	4	42	673	1482	103	1	0	13.5		2305
PCT	.2	1.8	29.2	64.3	4.5	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	*	.1		4.6
NE	1.5	.9	.6	.3		3.1
E	19.9	11.9	6.8	1.6		2.8
SE	20.5	16.6	10.6	2.6		3.2
S	1.4	1.2	1.3	.3		3.7
SW	*	.1	.3	.2		6.5
W	*	.0	.5	.1		5.9
NW	*	.1	.2	.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.1	.1	.0		5.0
TOT OBS	666	471	314	80	1531	3.1
TOT PCT	43.5	30.8	20.5	5.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
NE	.1	.0	*	*	.5	*	*	.0	.0	.0	2.7	
E	.1	.0	.3	1.4	2.0	.8	.3	.1	.1	.0	35.0	
SE	.1	.1	.5	2.1	2.8	1.5	.8	*	.1	.1	42.3	
S	.0	.0	.1	.3	.2	.2	.0	.0	.0	.0	3.4	
SW	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.1	
W	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.2	
NW	.0	.0	*	.0	*	.0	.1	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
TOT OBS	6	3	16	62	89	41	19	2	2	2	1289	1531
TOT PCT	.4	.2	1.0	4.0	5.8	2.7	1.2	.1	.1	.1	84.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
≥ OR >5000	.3	.4	.4	.4	.4	.4	.4	.4
≥ OR >3500	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
≥ OR >2000	3.7	3.9	4.3	4.3	4.3	4.3	4.3	4.3
≥ OR >1000	8.9	9.7	10.2	10.2	10.2	10.2	10.2	10.2
≥ OR >600	12.1	13.5	14.2	14.3	14.3	14.3	14.3	14.3
≥ OR >300	12.6	14.4	15.2	15.3	15.3	15.3	15.3	15.3
≥ OR >150	12.7	14.5	15.4	15.5	15.5	15.5	15.5	15.5
≥ OR > 0	12.8	14.6	15.5	15.9	15.9	15.9	15.9	15.9
TOTAL	196	224	238	243	243	244	244	244

TOTAL NUMBER OF OBS: 1531 PCT FREQ NH <5/8: 84.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.2	17.7	21.0	18.7	11.2	5.6	4.5	2.9	2.9 .2	1661

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1862-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.3	
2<5	NO PCP	.0	*	1.0	.6	.1	.1	.3	.2	.0	.0	2.4	
	TOT %	.0	*	1.1	.7	.2	.1	.3	.2	.0	.0	2.7	
	PCP	.0	*	.5	.6	.1	.0	.0	.0	.0	.0	1.2	
5<10	NO PCP	.1	.2	2.8	3.3	.5	.1	.3	.1	.0	.0	7.4	
	TOT %	.1	.2	3.2	3.9	.7	.1	.3	.1	.0	.0	8.6	
	PCP	.0	.0	.4	1.0	.1	.1	.0	.0	.0	.0	1.6	
10+	NO PCP	.2	2.9	35.7	44.3	3.3	.2	.0	.1	.0	.2	86.9	
	TOT %	.2	2.9	36.1	45.3	3.4	.2	.0	.1	.0	.2	88.5	
	TOT OBS												1875
	TOT PCT	.3	3.1	40.6	50.1	4.3	.5	.6	.3	.0	.2	100.0	

TABLE 9

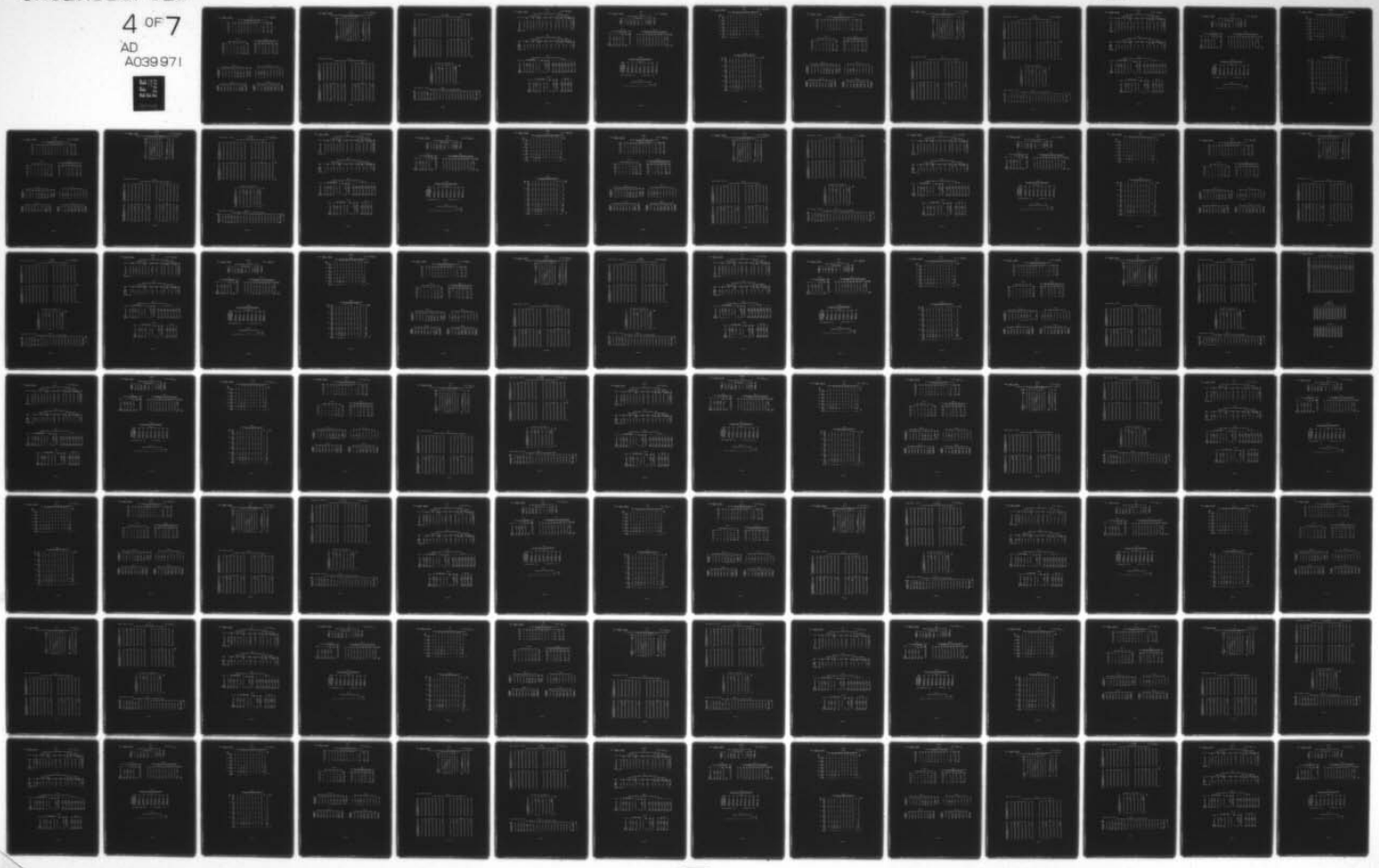
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	*	.3	.2	.1	.0	.1	*	.0		.7	
	11-21	.0	.0	.7	.4	.1	.1	.2	.2	.0		1.8	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	1.1	.7	.2	.1	.3	.2	.0	.0	2.6	
	0-3	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	.2	
5<10	4-10	*	*	.6	1.3	.3	*	.1	*	.0		2.4	
	11-21	.0	.1	2.2	2.2	.3	.1	.1	*	.0		5.1	
	22+	*	*	.1	.4	.0	.0	.0	.0	.0		.6	
	TOT %	.1	.2	3.1	3.9	.6	.1	.2	*	.0	.0	8.3	
	0-3	*	*	.7	.6	*	*	.0	*	.0	.2	1.7	
10+	4-10	.2	1.6	11.2	11.2	1.3	.1	.0	.0	.0		25.6	
	11-21	*	1.1	23.3	31.0	1.8	.1	.0	*	.0		57.4	
	22+	.0	*	1.0	2.5	.2	.0	.0	.0	.0		3.7	
	TOT %	.2	2.8	36.4	45.2	3.3	.2	.0	.1	.0	.2	88.5	
	TOT OBS												2018
	TOT PCT	.3	3.1	40.9	50.0	4.2	.4	.6	.3	.0	.2	100.0	

AD-A039 971 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). SOUTH A--ETC(U)
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PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1862-1973

AREA 0004 FORTALEZA NW
3.7S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.0	.8	3.3	4.6	1.1	.5	.0	.0	.3	11.4	88.6	367
06&09	.5	.0	1.3	4.3	6.1	2.3	1.0	.5	.0	.0	16.0	84.0	393
12&15	.3	.8	.8	5.3	6.3	2.5	1.5	.0	.5	.3	18.0	82.0	400
18&21	.0	.0	1.2	3.3	5.6	4.2	1.6	.0	.0	.0	15.9	84.1	427
TOT	6	3	16	64	90	41	19	2	2	2	245	1342	1587
PCT	.4	.2	1.0	4.0	5.7	2.6	1.2	.1	.1	.1	15.4	84.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.4	1.0	2.8	9.1	86.5	497
06&09	.2	.2	.0	2.9	7.3	89.4	480
12&15	.0	.4	.4	2.1	11.6	85.5	560
18&21	.0	.0	.0	2.6	5.5	91.9	495
TOT	2	5	7	53	172	1793	2032
PCT	.1	.2	.3	2.6	8.5	88.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.9	1.7	6.6	6.6	86.9	350
06&09	.5	1.8	8.7	9.5	81.8	380
12&15	.3	1.8	9.0	11.1	79.9	389
18&21	.0	1.2	6.6	11.4	82.0	412
TOT	6	25	118	149	1264	1531
PCT	.4	1.6	7.7	9.7	82.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.5	.6	.2	.1	.0	20	1.4
85/89	.0	.0	.0	.2	2.3	2.8	1.3	.6	100	7.2
80/84	.0	.0	.0	.0	4.0	25.8	17.1	5.7	734	52.6
75/79	.0	.0	.0	.0	.4	8.9	18.4	10.0	525	37.6
70/74	.0	.0	.0	.0	.0	.0	.4	.7	15	1.1
65/69	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	10	102	526	521	237	1396	100.0
PCT	.0	.0	.0	.7	7.3	37.7	37.3	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
	.0	.1	.3	.9	.1	.0	.0	.0	.0	.0
	.0	.2	2.8	3.6	.6	.0	.0	.0	.0	.0
	.3	1.6	21.1	28.1	1.3	.2	.0	.0	.0	.1
	.1	1.2	16.6	17.3	2.1	.1	.0	.0	.0	.1
	.0	.0	.4	.3	.2	*	*	*	.0	.0
	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
	.3	3.2	41.3	50.3	4.3	.3	*	*	.0	.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	82	80	77	74	70	79.6	574
06&09	86	84	82	79	76	74	69	78.9	514
12&15	96	89	86	81	77	75	73	81.2	620
18&21	94	92	89	82	78	75	68	82.8	517
TOT	96	90	86	80	77	74	68	80.6	2225

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.6	1.5	31.5	47.9	18.5	83	340
06&09	.0	.0	2.3	26.2	47.0	24.5	84	347
12&15	.0	.3	7.3	45.7	31.4	15.3	80	385
18&21	.0	2.1	18.7	46.4	23.2	9.6	77	332
TOT	0	10	103	528	524	239	81	1404

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1862-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	.1	6	.0	.4
9/10	.0	.0	.0	.0	.0	.1	.9	.0	16	.0	1.0
7/8	.0	.0	.0	.0	.0	1.6	.6	.0	36	.0	2.2
6	.0	.0	.0	.0	.0	1.4	.0	.0	23	.0	1.4
5	.0	.0	.0	.0	.3	2.0	.0	.0	37	.0	2.3
4	.0	.0	.0	.1	2.6	1.2	.0	.0	62	.0	3.9
3	.0	.0	.0	.1	3.3	.4	.0	.0	61	.0	3.8
2	.0	.0	.0	1.3	7.0	.3	.0	.0	139	.1	8.5
1	.0	.0	.1	2.7	6.9	.2	.0	.0	160	.1	9.9
0	.0	.0	.0	9.4	7.5	.0	.0	.0	272	.2	16.8
-1	.0	.0	.1	12.2	3.4	.1	.0	.0	253	.2	15.5
-2	.0	.0	.3	10.9	1.4	.0	.0	.0	203	.1	12.5
-3	.0	.0	.5	6.9	.8	.1	.0	.0	133	.0	8.3
-4	.0	.0	.9	5.1	.1	.0	.0	.0	96	.0	6.0
-5	.0	.0	.8	2.1	.0	.0	.0	.0	46	.0	2.9
-6	.0	.0	1.0	.7	.1	.0	.0	.0	28	.0	1.7
-7/-8	.1	.0	.7	.5	.1	.0	.0	.0	23	.0	1.4
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	3	73	833	539	121	30	3	1603	12	1591
PCT	.1	.2	4.6	52.0	33.6	7.5	1.9	.2	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.0	.0	.0	.0	.0	*
1-2	.2	1.4	.2	.0	.0	.0	1.8
3-4	.0	.2	.5	.0	.0	.0	.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	1.0	.0	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.4	.0	.0	.0	1.1
1-2	.2	5.6	3.7	.0	.0	.0	9.5
3-4	.0	4.0	9.9	.5	.0	.0	14.4
5-6	.0	1.3	6.0	.0	.0	.0	7.3
7	.0	.0	3.2	.0	.0	.0	3.2
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	11.2	23.8	.5	.0	.0	36.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.2	5.8	4.3	.0	.0	.0	10.3
3-4	.0	3.8	15.2	.7	.0	.0	19.7
5-6	.0	1.8	12.7	.7	.0	.0	15.2
7	.0	.5	3.2	1.4	.0	.0	5.2
8-9	.0	.1	.7	.0	.0	.0	.8
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	12.7	36.3	2.8	.0	.0	52.1

PERIOD: (OVER-ALL) 1963-1973 JULY AREA 0004 FORTALEZA NW
TABLE 18 (CONT) .7S 40.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	.8	.1	.0	.0	.0	1.1
3-4	.0	1.1	.7	.0	.0	.0	1.7
5-6	.0	.3	1.2	.0	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.4	.1	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	2.5	.0	.0	.0	5.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	*	.1	.0	.0	.0	.1
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.7	.0	.0	.0	1.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.2	.7	.0	.0	.0	.9
3-4	.0	.1	.5	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	1.4	.0	.0	.0	1.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.2	.0	.0	.0	.2	
3-4	.0	*	.3	.0	.0	.0	.3	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	*	.7	.0	.0	.0	.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	1.4	.4	.0	.0	.0	2.5	
1-2	.7	13.8	9.5	.0	.0	.0	24.0	
3-4	.0	9.3	27.3	1.2	.0	.0	37.8	
5-6	.0	3.3	20.7	.7	.0	.0	24.7	
7	.0	.5	7.0	1.4	.0	.0	8.9	
8-9	.0	.5	1.4	.0	.0	.0	1.9	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	28.9	66.4	3.3	.0	.0	100.0	571

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.0	20.9	10.6	2.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	601	4
6-7	.1	1.6	11.2	14.5	7.3	2.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	507	5
8-9	.0	.2	.9	3.0	2.7	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	6
10-11	.0	.4	.5	.5	.9	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
12-13	.0	.0	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
>13	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDET	.3	.9	1.9	.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
TOTAL	20	164	477	407	195	62	14	4	1	0	0	0	0	0	0	0	0	0	0	1344	4
PCT	1.5	12.2	35.5	30.3	14.5	4.6	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1875-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.4	.8	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	98.8
E	.4	.4	.3	.0	.0	.0	.0	1.1	1.0	.2	.0	.0	.3	.0	.0	97.3
SE	.5	.6	.3	.0	.0	.0	*	1.5	1.4	.1	.0	.0	.1	.1	.1	96.9
S	1.2	.0	.0	.0	.0	.0	1.2	2.3	2.3	.0	.0	.0	.0	.0	.0	95.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.5	.5	.3	.0	.0	.0	.1	1.4	1.2	.1	.0	.0	.2	.1	97.1	
TOT OBS:	1777															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.5	.5	.0	.0	.0	.2	1.4	1.4	.2	.0	.0	.0	.0	.0	97.0
06&09	.5	.2	.0	.0	.0	.0	.0	.7	1.2	.2	.0	.0	.0	.0	.0	97.9
12&15	.8	.8	.2	.0	.0	.0	.0	1.8	.8	.0	.0	.0	.0	.2	.0	97.2
18&21	.5	.5	.5	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.5	.2	96.5	
TOT PCT	.5	.5	.3	.0	.0	.0	.1	1.3	1.2	.1	.0	.0	.2	.1	97.1	
TOT OBS:	1783															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.1	.2	.0	.0	.0		.3	10.0	.3	.0	.0	.0	.2	.4	.4	3.6
NE	.2	2.1	1.6	.1	.0	.0		4.1	11.0	4.2	11.1	6.6	5.5	2.3	5.3	1.3	4.5
E	.3	8.9	31.1	3.0	*	.0		43.3	14.9	42.6	58.1	48.6	48.4	42.8	45.2	34.8	49.1
SE	.2	7.1	36.6	4.7	*	.0		48.7	15.8	48.7	30.0	41.2	38.3	51.1	45.4	59.3	42.9
S	*	.8	2.3	.2	.0	.0		3.4	13.8	3.8	.8	2.8	4.7	3.3	3.6	4.1	.0
SW	.0	*	.0	.0	.0	.0		*	7.0	.0	.0	.2	.0	.0	.0	.0	.0
W	.0	.0	.1	.0	.0	.0		.1	11.0	.0	.0	.2	1.1	.0	.0	.0	.0
NW	.0	.1	.0	.0	.0	.0		.1	9.0	.0	.0	.2	.0	.2	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.2	.0	.2	.0	.0	.0	.0	.0
TOT OBS	17	405	1516	168	2	0	2108		15.1	455	90	452	32	468	131	452	28
TOT PCT	.8	19.2	71.9	8.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.2	.0	.0	.0		.3	10.0	.3	.0	.3	.6
NE	.8	2.7	.6	.0	.0		4.1	11.0	5.4	6.5	3.0	1.5
E	1.8	24.9	16.4	.2	.0		43.3	14.9	45.2	48.6	43.4	35.7
SE	1.5	25.5	21.0	.7	.0		48.7	15.8	45.6	41.0	49.9	58.4
S	.2	2.5	.5	.1	.0		3.4	13.8	3.3	2.9	3.4	3.9
SW	.0	*	.0	.0	.0		*	7.0	.0	.2	.0	.0
W	.0	.1	.0	.0	.0		.1	11.0	.0	.4	.0	.0
NW	.0	.1	.0	.0	.0		.1	9.0	.0	.2	.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.2	.2	.0	.0
TOT OBS	96	1180	812	20	0	2108		15.1	545	484	599	480
TOT PCT	4.6	56.0	38.5	.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1875-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	.2	.6	21.1	71.9	6.2	.0	.0	14.7	100.0	545
06&09	.2	1.2	21.9	70.9	5.6	.2	.0	14.4	100.0	484
12&15	.0	.5	18.0	71.1	10.2	.2	.0	15.6	100.0	599
18&21	.0	.6	15.8	74.0	9.6	.0	.0	15.8	100.0	480
TOT	2	15	405	1516	168	2	0	15.1		2108
PCT	.1	.7	19.2	71.9	8.0	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.0	.0		1.5
NE	1.7	.7	.4	.1		2.6
E	19.3	11.9	7.7	1.5		2.8
SE	22.7	16.2	11.3	2.2		3.1
S	1.5	1.3	.8	.3		3.2
SW	.1	.0	.0	.0		.0
W	.0	.0	.1	.0		5.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.0	.0		2.0
TOT OBS	642	426	286	59	1413	3.0
TOT PCT	45.4	30.1	20.2	4.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NE	.0	.0	.0	.1	.2	.1	.0	.0	*	.0	2.6	
E	.1	.0	.1	1.2	2.6	1.0	.6	.1	.1	.0	34.5	
SE	.0	.1	.3	2.1	3.7	1.8	1.0	.1	.1	.0	43.1	
S	.0	.0	.0	.2	.4	.1	*	.0	.0	.0	3.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	1	1	6	51	98	42	23	4	3	0	1184	1413
TOT PCT	.1	.1	.4	3.6	6.9	3.0	1.6	.3	.2	.0	83.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	4.3	4.8	5.1	5.1	5.1	5.1	5.1	5.1
* OR >1000	10.2	11.7	12.1	12.1	12.1	12.1	12.1	12.1
* OR >600	13.2	15.2	15.7	15.7	15.7	15.7	15.7	15.7
* OR >300	13.5	15.5	16.0	16.1	16.1	16.1	16.1	16.1
* OR >150	13.6	15.5	16.1	16.1	16.2	16.2	16.2	16.2
* OR > 0	13.7	15.6	16.2	16.2	16.2	16.2	16.2	16.2
TOTAL	192	219	227	227	228	228	228	228

TOTAL NUMBER OF OBS: 1404

PCT FREQ NH <5/8: 83.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.9	16.5	21.0	18.4	10.7	6.2	4.1	3.3	2.8	.0	1453

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1875-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	NO PCP	.0	.0	.8	.5	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.8	.6	.0	.0	.0	.0	.0	.0	1.4	
	PCP	.0	*	.3	.2	.0	.0	.0	.0	.0	.0	.5	
5<10	NO PCP	.1	1.0	5.4	3.6	.3	.0	.0	.1	.0	.0	10.5	
	TOT %	.1	1.0	5.6	3.8	.3	.0	.0	.1	.0	.0	10.9	
	PCP	.0	*	.2	.4	.1	.0	.0	.0	.0	.0	.7	
10+	NO PCP	.1	2.4	35.2	45.8	3.2	.1	.0	.0	.0	.1	86.9	
	TOT %	.1	2.4	35.4	46.2	3.3	.1	.0	.0	.0	.1	87.6	
	TOT OBS												1766
	TOT PCT	.2	3.4	41.8	50.7	3.6	.1	.0	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.0	.0	.1	.2	.1	.0	.0	.1	.0		.4	
	11-21	.0	.0	.6	.4	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	.7	.6	.1	.0	.0	.1	.0	.0	1.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.1	.6	1.2	.5	*	.0	.0	.1	.0		2.5	
	11-21	*	.3	3.8	2.7	.2	.0	.0	.0	.0		7.1	
	22+	.0	.0	.5	.8	.1	.0	.0	.0	.0		1.3	
	TOT %	.1	1.0	5.5	4.0	.3	.0	.0	.1	.0	.0	10.9	
	0-3	.0	.1	.1	.1	.1	.0	.0	.0	.0	.1	.5	
10+	4-10	.1	1.1	6.1	6.4	.7	.1	.0	.0	.0		14.4	
	11-21	.1	1.1	26.9	35.7	2.2	.0	.0	.0	.0		66.0	
	22+	.0	.1	2.0	4.1	.2	.0	.0	.0	.0		6.3	
	TOT %	.1	2.4	35.2	46.3	3.2	.1	.0	.0	.0	.1	87.3	
	TOT OBS												1891
	TOT PCT	.2	3.4	41.5	51.1	3.6	.1	.0	.1	.0	.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1875-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	.6	2.1	4.2	1.5	.6	.3	.0	.0	9.5	90.5	337
06&09	.0	.0	.3	3.9	8.3	2.2	1.4	.3	.6	.0	16.9	83.1	361
12&15	.0	.3	.5	4.9	7.9	4.6	2.4	.3	.3	.0	21.1	78.9	369
18&21	.0	.0	.3	3.2	6.9	3.2	1.9	.3	.0	.0	15.6	84.4	377
TOT	1	1	6	51	99	42	23	4	3	0	230	1214	1444
PCT	.1	.1	.4	3.5	6.9	2.9	1.6	.3	.2	.0	15.9	84.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.2	.6	2.3	11.8	85.0	474
06&09	.0	.0	.0	2.3	8.6	89.2	443
12&15	.0	.2	.2	1.3	14.4	83.9	535
18&21	.0	.0	.0	.2	8.3	91.5	445
TOT	0	2	4	29	208	1654	1897
PCT	.0	.1	.2	1.5	11.0	87.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	.9	3.7	6.5	89.8	324
06&09	.0	.3	5.2	12.1	82.8	348
12&15	.0	.8	6.4	15.5	78.2	362
18&21	.0	.3	3.8	12.2	84.1	370
TOT	1	8	67	164	1173	1404
PCT	.1	.6	4.8	11.7	83.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
90/94	.0	.0	.1	.1	.9	.4	.2	.1	24	1.7
85/89	.0	.0	.0	.4	2.3	2.5	1.1	.1	90	6.5
80/84	.0	.0	.0	.1	4.8	27.2	13.0	3.5	670	48.6
75/79	.0	.0	.0	.0	.7	9.6	22.5	9.9	589	42.7
70/74	.0	.0	.0	.0	.0	.1	.1	.1	5	.4
TOTAL	0	0	1	10	121	549	510	189	1380	100.0
PCT	.0	.0	.1	.7	8.8	39.8	37.0	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	*	.0	.0	.0	.0	.0	.0
.0	.1	.4	1.2	.1	.0	.0	.0	.0	.0
.0	.1	2.5	3.4	.6	.0	.0	.0	.0	.0
.0	1.1	19.9	26.2	1.3	.0	.0	.0	.0	.1
.1	2.2	19.0	19.9	1.2	.1	.0	.1	.0	.1
.0	.1	.0	.3	.0	.0	.0	.0	.0	.0
.1	3.6	41.9	51.0	3.1	.1	.0	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	83	82	79	77	75	70	79.2	539
06&09	84	82	81	78	76	75	70	78.5	481
12&15	94	90	86	81	78	75	73	81.0	588
18&21	98	93	90	82	78	75	74	82.8	464
TOT	98	90	86	80	77	75	70	80.3	2072

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	3.3	32.3	48.5	15.6	82	334
06&09	.0	.0	2.8	26.9	49.5	20.7	84	323
12&15	.0	.5	7.3	48.6	30.6	13.0	80	399
18&21	.0	2.5	22.2	49.5	20.3	5.5	75	325
TOT	0	11	121	550	510	189	80	1381

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1875-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.7	.2	14	.0	.9
9/10	.0	.0	.0	.1	.7	.9	.0	25	.0	1.6
7/8	.0	.0	.0	.3	1.5	.4	.0	33	.0	2.2
6	.0	.0	.0	.2	1.1	.0	.0	20	.0	1.3
5	.0	.1	.3	1.4	1.6	.0	.0	51	.0	3.3
4	.0	.0	.5	3.4	.8	.0	.0	71	.0	4.6
3	.0	.0	.3	4.8	.1	.0	.0	80	.0	5.2
2	.0	.0	1.6	6.0	.2	.0	.0	120	.0	7.8
1	.0	.0	6.3	4.3	.0	.0	.0	163	.0	10.7
0	.0	.1	15.4	4.5	.0	.0	.0	306	.0	20.0
-1	.0	.0	14.1	1.8	.1	.0	.0	245	.0	16.0
-2	.0	.5	10.7	1.2	.0	.0	.0	188	.0	12.3
-3	.0	.7	5.4	.5	.0	.0	.0	101	.0	6.6
-4	.0	.9	2.8	.2	.0	.0	.0	59	.0	3.9
-5	.0	.3	1.5	.0	.0	.0	.0	28	.0	1.8
-6	.0	.4	.2	.0	.0	.0	.0	9	.0	.6
-7/-8	.0	.5	.0	.0	.0	.0	.0	7	.0	.5
-9/-10	.1	.1	.1	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	53	907	437	92	31	7	1529	0	1529
PCT	.1	3.5	59.3	28.6	6.0	2.0	.5	100.0		100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	.0
1-2	.0	*	.3	.0	.0	.0	.4
3-4	*	.3	.6	.0	.0	.0	.9
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.4	1.8	.0	.0	.0	2.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.9	3.9	.0	.0	.0	5.8
3-4	.3	2.7	16.5	.0	.0	.0	19.5
5-6	.0	.6	11.2	.3	.0	.0	12.1
7	.0	.2	4.8	.8	.0	.0	5.8
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.6	37.0	1.4	.0	.0	44.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	1.5	3.5	.0	.0	.0	5.0
3-4	.2	2.5	14.5	.5	.0	.0	17.7
5-6	.0	1.0	17.1	1.1	.0	.0	19.2
7	.0	.0	5.7	.8	.0	.0	6.5
8-9	.0	.0	1.3	.9	.0	.0	2.1
10-11	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.0	42.1	3.6	.0	.0	51.0

PERIOD: (OVER-ALL) 1963-1973

AUGUST

TABLE 18 (CONT)

AREA 0004 FORTALEZA NW .7S 40.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.3	.0	.0	.0	.3
3-4	.0	.1	.9	.0	.0	.0	1.1
5-6	.0	.1	.6	.0	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	1.9	.0	.0	.0	2.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.2	.4	.0	.0	.0	.0	.5	
1-2	.0	3.5	7.9	.0	.0	.0	11.4	
3-4	.5	5.6	32.5	.5	.0	.0	39.1	
5-6	.0	1.8	29.8	1.4	.0	.0	33.0	
7	.0	.2	10.7	1.6	.0	.0	12.5	
8-9	.0	.0	1.8	.9	.0	.0	2.6	
10-11	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								570
TOT PCT	.7	11.4	82.8	5.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	6.8	18.1	12.7	3.6	1.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	523	4
6-7	.1	.7	7.7	17.1	7.4	2.0	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	434	5
8-9	.0	.2	1.2	4.9	4.9	2.2	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175	6
10-11	.0	.0	.4	.2	.6	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.1	.1	.2	.2	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
>13	.0	.0	.0	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDEF	.1	.3	1.1	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
TOTAL	7	96	345	431	205	76	22	18	8	0	0	0	0	0	0	0	0	0	0	1208	5
PCT	.6	7.9	28.6	35.7	17.0	6.3	1.8	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.95 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.3	.0	.0	.0	.0	.3	1.3	.0	.0	.0	.0		.0	98.4
E	.0	.2	.2	.0	.0	.0	.0	.4	.2	.0	.3	.0	1.3		.0	97.9
SE	.0	.5	.0	.0	.0	.0	.0	.5	.8	.0	.1	.0	1.0		.0	97.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.0	.3	.1	.0	.0	.0	.0	.4	.5	.0	.2	.0	1.1		.0	97.8
TOT OBS:	1918															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.6	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.6		.0	98.5
06&09	.0	.0	.2	.0	.0	.0	.0	.2	.5	.0	.2	.0	.7		.0	98.3
12&15	.0	.0	.2	.0	.0	.0	.0	.2	.7	.0	.0	.0	.8		.0	98.3
18&21	.0	.7	.0	.0	.0	.0	.0	.7	.5	.0	.7	.0	2.3		.0	95.9
TOT PCT	.0	.3	.1	.0	.0	.0	.0	.4	.5	.0	.2	.0	1.1		.0	97.8
TOT OBS:	1922															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.1	.1	.0	.0	.0		.2	10.0	.2	.0	.4	.0	.2	.0	.0	.0
NE	.1	1.2	2.9	.2	.0	.0		4.4	13.7	4.4	9.7	8.4	8.6	2.3	3.2	2.3	5.6
E	.5	9.9	38.9	5.8	*	.0		55.2	15.4	55.5	58.3	60.2	62.9	54.8	54.0	48.3	81.5
SE	.1	6.0	28.7	4.3	.1	.0		39.1	15.9	39.3	29.9	30.4	28.4	40.9	42.2	47.7	13.0
S	.0	.3	.6	.1	.0	.0		1.0	16.3	.5	2.1	.6	.0	1.4	.6	1.3	.0
SW	.0	.0	.1	.0	.0	.0		.1	17.7	.0	.0	.0	.0	.2	.0	.3	.0
W	.0	.0	*	.0	.0	.0		*	19.0	.0	.0	.0	.0	.2	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.0	.0	.0	.0	.0	.0	.2	.0
TOT OBS	18	396	1614	236	3	0	2267		15.5	513	72	451	29	537	173	465	27
TOT PCT	.8	17.5	71.2	10.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	.2	.0	.0	.0		.2	10.0	.2	.4	.1	.0
NE	.3	2.8	1.3	.0	.0		4.4	13.7	5.1	8.4	2.5	2.4
E	1.9	30.7	22.1	.4	*		55.2	15.4	55.8	60.4	54.6	50.1
SE	1.5	19.8	17.3	.4	*		39.1	15.9	38.2	30.3	41.2	45.8
S	.0	.5	.4	*	.0		1.0	16.3	.7	.6	1.2	1.2
SW	.0	.1	*	.0	.0		.1	17.7	.0	.0	.1	.3
W	.0	.0	*	.0	.0		*	19.0	.0	.0	.1	.0
NW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.0	.0	.0	.2
TOT OBS	87	1225	935	19	1	2267		15.5	585	480	710	492
TOT PCT	3.8	54.0	41.2	.8	*		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.9S 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.0	18.6	70.3	10.1	.0	.0	15.3	100.0	585
06&09	.0	.6	21.7	70.4	7.3	.0	.0	14.8	100.0	480
12&15	.0	.3	17.0	69.2	13.1	.4	.0	16.0	100.0	710
18&21	.2	1.2	12.6	76.0	10.0	.0	.0	15.9	100.0	492
TOT	1	17	396	1614	236	3	0	15.5		2267
PCT	*	.7	17.5	71.2	10.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.1	.0		4.2
NE	2.2	1.2	.4	.3		2.6
E	29.1	16.7	7.5	1.3		2.5
SE	19.7	12.1	6.7	1.2		2.8
S	.5	.4	.1	.0		2.6
SW	.1	.1	.0	.0		2.4
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.1	.0	.0		3.0
TOT OBS	777	460	222	42	1501	2.6
TOT PCT	51.8	30.6	14.8	2.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
NE	.0	.0	.0	*	.1	.1	.1	.0	.0	*	3.8	
E	.0	.1	.3	1.5	2.1	1.6	.1	.0	.1	*	48.8	
SE	.0	.0	.1	.8	2.7	1.3	.3	.3	.0	.0	34.1	
S	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	0	1	7	36	76	46	9	5	1	1	1319	1501
TOT PCT	.0	.1	.5	2.4	5.1	3.1	.6	.3	.1	.1	87.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >1000	8.2	9.1	9.2	9.2	9.2	9.2	9.2	9.2
* OR >600	10.3	11.5	11.6	11.6	11.6	11.6	11.6	11.6
* OR >300	10.7	12.0	12.1	12.1	12.1	12.1	12.1	12.1
* OR >150	10.8	12.0	12.2	12.2	12.2	12.2	12.2	12.2
* OR > 0	10.8	12.0	12.2	12.2	12.2	12.2	12.2	12.2
TOTAL	161	180	182	182	182	182	182	182

TOTAL NUMBER OF OBS: 1495 PCT FREQ NH <5/8: 87.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	18.8	21.9	19.3	9.9	4.9	3.9	1.9	1.5	.0	1556

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.9S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	*	.9	.3	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	*	.9	.3	.0	.0	.0	.0	.0	.0	1.3	
	PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.3	
5<10	NO PCP	.0	.4	6.3	4.0	.2	.0	.0	.0	.0	.1	10.9	
	TOT %	.0	.4	6.4	4.1	.2	.0	.0	.0	.0	.1	11.1	
	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
10+	NO PCP	.2	3.7	47.7	34.8	.8	.1	.1	.0	.0	.0	87.3	
	TOT %	.2	3.7	47.8	34.9	.8	.1	.1	.0	.0	.0	87.4	
	TOT OBS												1917
	TOT PCT	.2	4.1	55.3	39.3	.9	.1	.1	.0	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.2	*	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.5	.3	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	*	.9	.3	.0	.0	.0	.0	.0	.0	1.2	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	*	.2	
5<10	4-10	.0	*	.7	.8	.1	.0	.0	.0	.0		1.6	
	11-21	.0	.4	4.2	2.4	.1	.0	.0	.0	.0		7.1	
	22+	.0	.0	1.2	.9	.0	.0	.0	.0	.0		2.1	
	TOT %	.0	.4	6.3	4.1	.2	.0	.0	.0	.0	*	11.1	
	0-3	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.4	
10+	4-10	.1	1.1	8.4	4.9	.1	.0	.0	.0	.0		14.5	
	11-21	.1	2.3	34.0	26.9	.5	.1	*	.0	.0		63.9	
	22+	.0	.1	4.6	3.7	.1	.0	.0	.0	.0		8.6	
	TOT %	.1	3.5	47.2	35.6	.8	.1	*	.0	.0	.0	87.4	
	TOT OBS												2070
	TOT PCT	.1	3.9	54.6	40.1	1.0	.1	*	.0	.0	*	100.0	

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1872-1973

AREA 0004 FORTALEZA NW
.9S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.8	.8	1.9	1.4	.3	.3	.0	.3	5.7	94.3	369
06&09	.0	.0	.3	3.5	4.3	2.7	.5	.3	.3	.0	11.9	88.1	370
12&15	.0	.2	.0	3.2	6.8	4.6	1.0	.0	.0	.0	15.8	84.2	411
18&21	.0	.0	.8	1.8	6.3	3.0	.5	.8	.0	.0	13.0	87.0	399
TOT	0	1	7	36	76	46	9	5	1	1	182	1367	1549
PCT	.0	.1	.5	2.3	4.9	3.0	.6	.3	.1	.1	11.7	88.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.2	.8	2.1	12.7	84.3	521
06&09	.0	.0	.0	1.4	6.5	92.1	444
12&15	.0	.0	.2	.5	13.4	86.0	649
18&21	.0	.0	.2	1.1	10.2	88.5	460
TOT	0	1	6	25	229	1813	2074
PCT	.0	*	.3	1.2	11.0	87.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.8	2.0	4.2	93.8	354
06&09	.0	.3	5.0	7.7	87.3	362
12&15	.0	.3	4.1	12.9	83.0	394
18&21	.0	.8	3.6	10.9	85.5	385
TOT	0	8	55	136	1304	1495
PCT	.0	.5	3.7	9.1	87.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
90/94	.0	.0	.0	.3	1.0	.3	.1	.0	25	1.7
85/89	.0	.0	.1	.3	2.8	3.8	1.1	.1	122	8.2
80/84	.0	.0	.0	.1	3.5	29.4	11.8	6.0	753	50.8
75/79	.0	.0	.0	.0	.1	9.6	21.9	7.0	573	38.7
70/74	.0	.0	.0	.0	.0	.0	.1	.3	6	.4
TOTAL	0	0	1	12	111	638	519	200	1481	100.0
PCT	.0	.0	.1	.8	7.5	43.1	35.0	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
	.0	.1	.8	.7	.1	.0	.0	.0	.0	.0
	.0	.2	4.3	3.6	.3	.0	.0	.0	.0	.0
	.1	1.6	26.7	21.9	.5	.2	.0	.0	.0	.0
	.1	1.8	23.1	13.3	.4	.0	.0	.0	.0	.0
	.0	*	.2	.2	.0	.0	.0	.0	.0	.0
	.1	3.7	55.0	39.7	1.2	.2	.0	.0	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	82	79	77	76	74	79.5	567
06&09	86	84	81	79	76	74	72	78.6	477
12&15	94	89	86	81	78	76	74	81.5	694
18&21	97	93	90	82	79	77	75	83.0	485
TOT	97	90	86	80	77	76	72	80.7	2223

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.9	33.8	47.4	16.9	83	367
06&09	.0	.0	.3	27.5	56.9	15.3	83	313
12&15	.0	.6	7.8	51.2	25.6	14.8	79	473
18&21	.0	3.0	20.2	56.6	14.2	6.0	75	332
TOT	0	13	112	640	520	200	80	1485

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1872-1973

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.9S 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.1	.0	2	.0	.1
11/13	.0	.0	.0	.2	.7	.2	19	.0	1.1
9/10	.0	.0	.0	.9	1.0	.1	32	.0	1.9
7/8	.0	.0	.2	2.0	.5	.0	46	.0	2.7
6	.0	.1	.6	1.0	.0	.0	28	.0	1.7
5	.0	.1	.8	1.9	.0	.0	47	.0	2.8
4	.0	.4	3.9	.4	.0	.0	77	.0	4.6
3	.0	.5	4.3	.7	.1	.0	94	.0	5.6
2	.0	2.7	8.3	.2	.0	.0	188	.1	11.1
1	.0	3.7	7.3	.1	.0	.0	185	.0	11.0
0	.1	13.6	3.9	.1	.0	.0	297	.0	17.7
-1	.2	13.3	1.5	.0	.0	.0	253	.0	15.1
-2	.2	10.8	1.3	.0	.0	.0	206	.0	12.3
-3	.6	5.5	.3	.0	.0	.0	108	.0	6.4
-4	.7	2.9	.1	.0	.0	.0	61	.0	3.6
-5	.2	.9	.1	.1	.0	.0	21	.0	1.3
-6	.1	.2	.0	.0	.0	.0	5	.0	.3
-7/-8	.4	.1	.0	.0	.0	.0	8	.0	.5
TOTAL	41	921	547	125	38	7	1679	1	1678
PCT	2.4	54.9	32.6	7.4	2.3	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.3	.0	.0	.0	.7
3-4	.0	*	1.0	.1	.0	.0	1.1
5-6	.0	.0	1.1	*	.0	.0	1.1
7	.0	*	.2	*	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	2.7	.2	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	2.9	.0	.0	.0	5.6
3-4	.0	2.4	15.2	.6	.0	.0	18.3
5-6	.0	.9	14.6	2.3	.0	.0	17.8
7	.0	.3	4.9	3.8	.0	.0	9.1
8-9	.0	.2	1.3	1.1	.0	.0	2.7
10-11	.0	.0	.5	.4	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.5	39.6	8.3	.0	.0	54.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.2	2.5	.0	.0	.0	4.9
3-4	.0	.8	9.9	.7	.0	.0	11.4
5-6	.0	1.1	11.3	.9	.0	.0	13.3
7	.0	.0	6.6	1.1	.0	.0	7.6
8-9	.0	.0	1.6	.4	.0	.0	2.0
10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	.5	.4	.0	.0	.9
13-16	.0	.0	.2	.2	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	32.6	3.9	.0	.0	41.3

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0004 FORTALEZA NW
.95 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.7	.0	.0	.0	.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.2	5.5	5.7	.0	.0	.0	11.4	
3-4	.0	3.3	26.4	1.5	.0	.0	31.1	
5-6	.0	2.0	26.9	3.3	.0	.0	32.2	
7	.0	.4	12.1	4.9	.0	.0	17.4	
8-9	.0	.2	3.1	1.5	.0	.0	4.8	
10-11	.0	.0	.5	.7	.0	.0	1.3	
12	.0	.0	.5	.4	.0	.0	.9	
13-16	.0	.0	.4	.2	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	11.7	75.6	12.5	.0	.0	100.0	546

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	6.4	16.0	11.2	4.3	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	4
6-7	.0	.2	9.1	16.4	8.9	2.0	.4	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	469	5
8-9	.0	.0	1.3	3.3	7.1	1.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	6
10-11	.0	.0	.2	.6	.6	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
12-13	.0	.0	.2	.4	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
>13	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.2	.6	1.9	.6	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
TOTAL	11	90	356	405	269	75	21	8	6	0	0	0	0	0	0	0	0	0	0	1241	5
PCT	.9	7.3	28.7	32.6	21.7	6.0	1.7	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.7	.0	.4		.0	98.5
E	.0	.4	.0	.0	.0	.0	.0	.4	.3	.0	.5	.0	.5		.2	98.1
SE	.3	.5	.0	.0	.0	.0	.0	.8	.5	.3	.0	.0	.9		.0	97.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.1	.4	.0	.0	.0	.0	.0	.5	.4	.1	.4	.0	.6		.1	97.9
TOT OBS:	1934															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	.0	.4	.0	.0	.0	.0	.0	.4	.0	.4	.8	.0	.6		.2	97.6
06609	.0	.2	.0	.0	.0	.0	.0	.2	.7	.0	.2	.0	.7		.0	98.2
12615	.3	.3	.0	.0	.0	.0	.0	.7	.5	.0	.3	.0	.3		.2	97.9
18621	.0	.7	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.9		.0	98.2
TOT PCT	.1	.4	.0	.0	.0	.0	.0	.5	.4	.1	.4	.0	.6		.1	97.9
TOT OBS:	1944															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.2	*	.0	.0	.0		.3	6.4	.2	.0	.2	.0	.7	.9	.0	.0
NE	.1	2.1	4.5	.3	.0	.0		7.0	13.5	6.7	8.0	12.2	6.1	5.6	6.3	3.5	16.2
E	.5	13.7	42.4	3.9	.0	.0		60.4	14.6	60.6	63.0	61.5	62.9	64.2	55.7	56.7	48.5
SE	.2	6.8	22.5	1.6	.0	.0		31.1	14.4	30.8	29.0	23.1	31.1	28.0	36.6	39.3	32.4
S	.0	.2	.5	*	.0	.0		.7	14.6	1.3	.0	.3	.0	.9	.6	.6	.0
SW	.0	*	.1	.0	.0	.0		.1	11.4	.0	.0	.1	.0	.4	.0	.0	.0
W	.0	.0	.1	.0	.0	.0		.1	15.0	.2	.0	.1	.0	.0	.0	.0	2.9
NW	.1	.0	.0	.0	.0	.0		.1	1.5	.2	.0	.2	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.0	.0	.2	.0	.2	.0	.0	.0
TOT OBS	23	537	1632	134	0	0	2326		14.4	511	94	464	33	542	172	476	34
TOT PCT	1.0	23.1	70.2	5.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.1	.0	.0	.0		.3	6.4	.2	.2	.8	.0
NE	.6	4.3	2.2	.0	.0		7.0	13.5	6.9	11.8	5.7	4.3
E	2.5	37.0	20.7	.2	.0		60.4	14.6	61.0	61.6	62.1	56.1
SE	1.8	18.6	10.6	.1	.0		31.1	14.4	30.5	25.5	30.1	38.8
S	.2	.3	.2	.0	.0		.7	14.6	1.1	.3	.8	.5
SW	.0	.1	.0	.0	.0		.1	11.4	.0	.1	.3	.0
W	.0	.1	*	.0	.0		.1	15.0	.2	.1	.0	.2
NW	.1	.0	.0	.0	.0		.1	1.5	.2	.2	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.0	.2	.1	.0
TOT OBS	126	1407	785	8	0	2326		14.4	605	497	714	510
TOT PCT	5.4	60.5	33.7	.3	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.8	25.1	67.3	6.8	.0	.0	14.2	100.0	605
06&09	.2	.8	25.4	69.4	4.2	.0	.0	14.2	100.0	497
12&15	.1	1.1	22.5	70.0	6.2	.0	.0	14.4	100.0	714
18&21	.0	.8	19.2	74.5	5.5	.0	.0	14.8	100.0	510
TOT	2	21	537	1632	134	0	0	14.4		2326
PCT	.1	.9	23.1	70.2	5.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.2	.0	*		3.1
NE	3.5	1.7	.7	*		2.3
E	32.3	19.9	8.3	.3		2.5
SE	13.2	12.3	5.6	.8		3.0
S	.2	.2	.2	*		3.8
SW	.1	.0	.0	.0		1.0
W	.0	.0	.1	.0		6.0
NW	.1	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.0	.0		1.0
TOT OBS	753	523	226	19	1521	2.7
TOT PCT	49.5	34.4	14.9	1.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.2	
NE	.0	.0	.0	.1	.3	.1	*	.0	.0	.0	5.3	
E	.1	.0	.1	1.0	2.2	1.1	.3	.1	.1	*	55.9	
SE	.0	.0	.1	.8	1.1	1.1	.2	.1	.1	*	28.3	
S	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	1	0	4	29	54	38	10	2	3	1	1379	1521
TOT PCT	.1	.0	.3	1.9	3.6	2.5	.7	.1	.2	.1	90.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.3	.3	.3	.3	.3	.3
* OR >5000	.3	.3	.4	.4	.4	.4	.4	.4
* OR >3500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >2000	3.1	3.3	3.5	3.5	3.5	3.5	3.5	3.5
* OR >1000	6.5	6.9	7.1	7.1	7.1	7.1	7.1	7.1
* OR >600	8.3	8.8	9.0	9.0	9.0	9.0	9.0	9.0
* OR >300	8.4	9.0	9.2	9.2	9.2	9.2	9.2	9.2
* OR >150	8.4	9.0	9.2	9.2	9.2	9.2	9.2	9.2
* OR > 0	8.5	9.1	9.3	9.3	9.3	9.3	9.3	9.3
TOTAL	130	139	142	142	142	142	142	142

TOTAL NUMBER OF OBS: 1527 PCT FREQ NH <5/8: 90.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.8	17.7	26.0	20.8	11.3	4.4	2.9	1.7	.3	.0	1578

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	*	.3	.5	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	*	.3	.5	.0	.0	.0	.0	.0	.0	.8	
	PCP	.0	*	.2	.1	.0	.0	.0	.0	.0	.0	.4	
5<10	NO PCP	.0	1.4	5.6	2.4	.0	.0	.1	.1	.0	.0	9.5	
	TOT %	.0	1.4	5.9	2.5	.0	.0	.1	.1	.0	.0	9.9	
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	.4	5.6	54.2	28.1	.7	.1	.1	.1	.0	.1	89.2	
	TOT %	.4	5.6	54.2	28.2	.7	.1	.1	.1	.0	.1	89.3	
	TOT OBS												1932
	TOT PCT	.4	7.0	60.4	31.2	.7	.1	.1	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	11-21	.0	*	.2	.3	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.3	.4	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
5<10	4-10	.0	.4	1.2	.9	.0	.0	.0	.0	.0		2.6	
	11-21	.0	.8	3.6	1.3	.0	.0	*	.0	.0		5.8	
	22+	.0	.1	.8	.1	.0	.0	.0	.0	.0		1.0	
	TOT %	.0	1.3	5.6	2.4	.0	.0	*	*	.0	.0	9.4	
	0-3	*	.1	.5	.1	.0	.0	.0	*	.0	.1	.9	
10+	4-10	.3	1.8	13.2	5.9	.2	.0	.0	.0	.0		21.3	
	11-21	*	3.6	37.7	20.9	.6	*	*	.0	.0		62.9	
	22+	.0	*	3.0	1.5	*	.0	.0	.0	.0		4.5	
	TOT %	.4	5.5	54.4	28.4	.8	*	*	*	.0	.1	89.6	
	TOT OBS												2066
	TOT PCT	.4	6.8	60.5	31.2	.8	*	.1	.1	.0	.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0004 FORTALEZA NW
.8S 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	.0	.8	1.0	2.1	.8	.0	.3	.3	5.2	94.8	381
06E09	.0	.0	.0	1.9	3.4	2.4	.3	.0	.0	.0	8.0	92.0	377
12E15	.0	.0	.7	3.3	5.2	3.5	.7	.0	.0	.0	13.5	86.5	423
18E21	.3	.0	.3	1.3	3.8	1.5	.8	.5	.5	.0	8.9	91.1	392
TOT	1	0	4	29	54	38	10	2	3	1	142	1431	1573
PCT	.1	.0	.3	1.8	3.4	2.4	.6	.1	.2	.1	9.0	91.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	.2	.6	2.2	13.7	83.3	534
06E09	.0	.0	.0	.4	6.3	93.2	458
12E15	.0	.0	.0	.0	10.8	89.2	622
18E21	.0	.0	.0	.2	6.3	93.5	462
TOT	0	1	3	15	198	1859	2076
PCT	.0	*	.1	.7	9.5	89.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	.0	1.3	4.0	94.6	371
06E09	.0	.0	2.5	6.4	91.1	359
12E15	.0	.7	4.1	9.6	86.3	416
18E21	.3	.5	2.1	7.1	90.8	381
TOT	1	5	39	105	1383	1527
PCT	.1	.3	2.6	6.9	90.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.1	.0	.0	4	.3
90/94	.0	.0	.0	.3	1.4	.5	.1	.0	36	2.3
85/89	.0	.0	.0	.1	2.3	3.5	1.7	.5	126	8.2
80/84	.0	.0	.0	.1	3.5	29.9	17.6	7.7	900	58.7
75/79	.0	.0	.0	.0	.0	7.0	18.3	5.1	467	30.4
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	10	112	628	579	205	1534	100.0
PCT	.0	.0	.0	.7	7.3	40.9	37.7	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
.0	.0	1.4	.9	.0	.0	.0	.0	.0	.0
.1	.3	5.1	2.6	*	.0	.0	.0	.0	.0
.3	4.2	34.3	19.3	.4	.1	.0	.0	.0	.1
.0	2.7	19.9	7.2	.3	.0	.1	.1	.0	.1
.0	.0	*	*	.0	.0	.0	.0	.0	.0
.4	7.3	60.9	30.2	.8	.1	.1	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	87	84	82	80	78	77	76	79.7	596
06E09	85	82	81	79	77	75	74	78.9	492
12E15	95	90	86	82	79	78	77	82.1	709
18E21	97	94	90	82	79	78	77	83.2	503
TOT	97	91	86	80	78	76	74	81.0	2300

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	.0	1.8	34.5	47.4	16.4	83	397
06E09	.0	.0	.6	23.4	56.5	19.5	84	338
12E15	.0	.4	8.7	51.5	28.8	10.5	79	458
18E21	.0	2.3	18.2	51.2	20.8	7.5	76	346
TOT	0	10	112	629	583	205	80	1539

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0004 FORTALEZA NW
.05 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.6	10	.0	.6
11/13	.0	.0	.0	.1	.8	.1	16	.0	.9
9/10	.0	.0	.0	.4	1.1	.1	27	.0	1.6
7/8	.0	.1	.1	2.4	.2	.0	47	.0	2.8
6	.1	.0	.5	1.9	.0	.0	42	.0	2.5
5	.0	.0	1.2	1.7	.0	.0	49	.0	2.9
4	.0	.1	3.2	.9	.0	.0	73	.0	4.3
3	.0	.4	4.4	.8	.0	.0	93	.0	5.5
2	.0	1.6	7.9	.2	.1	.0	166	.0	9.8
1	.0	4.1	6.3	.0	.0	.0	176	.2	10.2
0	.0	13.9	6.6	.1	.1	.0	350	.0	20.7
-1	.1	12.8	2.7	.0	.0	.0	263	.1	15.4
-2	.2	9.3	1.6	.0	.0	.0	188	.1	11.0
-3	.4	4.7	.4	.0	.0	.0	92	.0	5.4
-4	.3	2.1	.2	.1	.0	.0	45	.0	2.7
-5	.1	1.7	.2	.0	.0	.0	34	.0	2.0
-6	.1	.2	.0	.0	.0	.0	6	.0	.4
-7/-8	.1	.2	.1	.0	.0	.0	7	.0	.4
-9/-10	.0	.3	.1	.0	.0	.0	7	.0	.4
TOTAL	22	873	601	144	39	14	1693	7	1686
PCT	1.3	51.6	35.5	8.5	2.3	.8	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.2	.3	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.0	.0	.0	.0	.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.6	.3	.0	.0	.0	1.1
3-4	.0	.7	2.0	.0	.0	.0	2.7
5-6	.0	.0	2.3	*	.0	.0	2.4
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.9	*	.0	.0	6.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	4.9	4.9	.0	.0	.0	9.8
3-4	.4	5.9	19.5	.7	.0	.0	26.5
5-6	.3	2.1	15.0	.8	.0	.0	18.2
7	.0	.5	3.7	.1	.0	.0	4.3
8-9	.0	.0	.3	1.0	.0	.0	1.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	14.2	43.6	2.7	.0	.0	61.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.5	.0	.0	.0	1.6
1-2	.0	2.5	2.0	.0	.0	.0	4.5
3-4	.1	2.0	8.6	*	.0	.0	10.7
5-6	*	.7	7.8	.6	.0	.0	9.1
7	.0	.2	3.1	.2	.0	.0	3.5
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.2	*	.0	.0	.2
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.4	22.9	1.1	.0	.0	30.5

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0004 FORTALEZA NW
.85 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.7	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	2.1	.5	.0	.0	.0	2.6	
1-2	.0	8.4	7.3	.0	.0	.0	15.7	
3-4	.7	8.9	30.3	.7	.0	.0	40.6	
5-6	.3	2.8	25.1	1.4	.0	.0	29.6	
7	.0	.7	7.5	.3	.0	.0	8.5	
8-9	.0	.0	.9	1.2	.0	.0	2.1	
10-11	.0	.0	.2	.2	.0	.0	.3	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								574
TOT PCT	1.0	22.8	72.3	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	5.9	21.3	11.7	3.5	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	586	4
6-7	.2	1.3	10.5	16.4	6.4	2.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	5
8-9	.0	.4	2.3	2.9	4.0	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	6
10-11	.0	.1	.2	.8	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
12-13	.0	.0	.4	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
>13	.0	.0	.0	.2	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDET	.2	.5	1.1	.8	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	4
TOTAL	19	107	474	439	205	59	17	4	4	0	0	0	0	0	0	0	0	0	0	1328	5
PCT	1.4	8.1	35.7	33.1	15.4	4.4	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1882-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.9	.0	.0	.0	.0	.0	.9	.0	.4	3.6	.0	.0	.0	.0	95.1
E	.1	.5	.1	.0	.0	.0	.0	.6	.4	.1	.8	.0	.0	.0	.0	98.0
SE	.0	.2	.2	.0	.0	.0	.0	.4	1.0	.0	.4	.0	.0	.0	.0	98.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	88.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.1	.4	.1	.0	.0	.0	.0	.6	.5	.1	1.0	.0	.0	.0	.0	97.8
TOT OBS:	1837															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	1.1	.2	.0	.0	.0	.0	1.6	.2	.0	1.8	.0	.0	.0	.0	96.3
06&09	.0	.2	.0	.0	.0	.0	.0	.2	.7	.4	.7	.0	.0	.0	.0	98.0
12&15	.0	.0	.2	.0	.0	.0	.0	.2	.2	.0	.8	.0	.0	.0	.0	98.8
18&21	.0	.5	.0	.0	.0	.0	.0	.5	1.1	.0	.7	.0	.0	.0	.0	97.7
TOT PCT	.1	.4	.1	.0	.0	.0	.0	.6	.5	.1	1.0	.0	.0	.0	.0	97.8
TOT OBS:	1842															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.1	.1	.0	.0	.0		.3	6.5	.4	.9	.3	.0	.1	.0	.2	.0
NE	.2	3.3	4.6	.2	.0	.0		8.3	12.4	7.8	12.9	11.4	15.5	8.0	6.8	4.6	19.1
E	.5	17.8	42.7	2.9	*	.0		63.9	13.6	65.1	60.7	67.2	76.2	63.2	61.5	61.0	67.6
SE	.1	6.7	19.0	1.1	*	.0		27.0	13.9	26.5	25.4	20.9	8.3	27.9	31.7	33.1	13.2
S	.0	.1	.2	.0	.0	.0		.4	14.0	.3	.0	.1	.0	.3	.0	1.0	.0
SW	.0	.0	*	.0	.0	.0		*	16.0	.0	.0	.0	.0	.2	.0	.0	.0
W	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	*	.0	.0	.0		*	13.0	.0	.0	.0	.0	.0	.0	.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.0	.0	.0	.0	.4	.0	.0	.0
TOT OBS	21	654	1552	99	1	0	2327		13.6	489	112	511	21	522	157	498	17
TOT PCT	.9	28.1	66.7	4.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.1	*	.0	.0		.3	6.5	.5	.3	.1	.2
NE	.7	5.9	1.7	.0	.0		8.3	12.4	8.7	11.6	7.7	5.0
E	3.8	44.2	15.6	.3	.0		63.9	13.6	64.3	67.6	62.8	61.2
SE	1.4	17.6	7.8	.3	.0		27.0	13.9	26.3	20.4	28.8	32.4
S	*	.2	.2	.0	.0		.4	14.0	.2	.1	.2	.9
SW	.0	*	.0	.0	.0		*	16.0	.0	.0	.1	.0
W	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NW	.0	*	.0	.0	.0		*	13.0	.0	.0	.0	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.0	.0	.3	.0
TOT OBS	143	1583	587	14	0	2327		13.6	601	532	679	515
TOT PCT	6.1	68.0	25.2	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1882-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.2	30.9	63.2	4.5	.2	.0	13.3	100.0	601
06&09	.0	.6	29.1	66.0	4.3	.0	.0	13.6	100.0	532
12&15	.3	.7	27.1	67.9	4.0	.0	.0	13.6	100.0	679
18&21	.0	.8	25.0	69.9	4.3	.0	.0	13.9	100.0	515
TOT	2	19	654	1552	99	1	0	13.6		2327
PCT	.1	.8	28.1	66.7	4.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.0	.0	.0		.7
NE	3.6	2.2	1.1	.1		2.8
E	34.7	20.9	9.3	1.5		2.7
SE	10.4	8.8	5.5	1.1		3.3
S	.3	.1	.1	.0		3.0
SW	.1	.0	.0	.0		2.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.1		8.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.1	.0		5.0
TOT OBS	713	463	232	40	1448	2.8
TOT PCT	49.2	32.0	16.0	2.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
NE	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	6.6	
E	.1	.0	.1	1.2	2.8	.7	.5	.1	.1	.1	60.7	
SE	*	.0	.1	1.0	1.3	.6	.3	.1	.0	*	22.3	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.4	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	1	0	2	34	62	20	13	4	1	1	1310	1448
TOT PCT	.1	.0	.1	2.3	4.3	1.4	.9	.3	.1	.1	90.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >2000	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8
* OR >1000	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
* OR >600	8.8	9.3	9.4	9.4	9.4	9.4	9.4	9.4
* OR >300	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5
* OR >150	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5
* OR > 0	9.0	9.5	9.6	9.6	9.6	9.6	9.6	9.6
TOTAL	130	138	139	139	139	139	139	139

TOTAL NUMBER OF OBS: 1448 PCT FREQ NH <5/8: 90.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.2	21.7	28.9	20.3	9.2	4.1	3.0	1.6	1.0 .0	1503

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1882-1973

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	*	.6	.3	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	*	.7	.3	.0	.0	.0	.0	.0	.0	1.0	
	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
5<10	NO PCP	.1	1.4	6.2	2.5	.1	.0	.0	.1	.0	.0	10.2	
	TOT %	.1	1.4	6.3	2.6	.1	.0	.0	.1	.0	.0	10.5	
	PCP	.0	*	.3	.1	.0	.0	.0	.0	.0	.0	.3	
10+	NO PCP	.1	6.1	58.3	23.2	.4	.1	.0	.0	.0	.1	88.2	
	TOT %	.1	6.1	58.6	23.2	.4	.1	.0	.0	.0	.1	88.6	
	TOT OBS												1836
	TOT PCT	.2	7.6	65.6	26.0	.5	.1	.0	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	*	.3	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.4	.1	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.7	.3	.0	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	*	.5	1.8	.3	.0	.0	.0	.0	.0		2.7	
	11-21	.0	1.0	3.6	1.9	*	.0	.0	*	.0		6.6	
	22+	.0	.1	.5	.3	.0	.0	.0	.0	.0		.9	
	TOT %	*	1.6	6.0	2.5	*	.0	.0	*	.0	.0	10.3	
	0-3	.1	.1	.3	*	.0	.0	.0	.0	.0	*	.6	
10+	4-10	.1	2.5	15.8	5.9	.1	.0	.0	.0	.0		24.4	
	11-21	.1	3.4	39.4	17.4	.2	*	.0	.0	.0		60.5	
	22+	.0	.1	2.1	.9	.0	.0	.0	.0	.0		3.1	
	TOT %	.2	6.2	57.5	24.2	.4	*	.0	.0	.0	*	88.6	
	TOT OBS												2006
	TOT PCT	.3	7.8	64.3	27.0	.4	*	.0	*	.0	*	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1882-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.1	2.4	.6	1.2	.0	.3	.0	6.5	93.5	338
06&09	.0	.0	.3	.8	2.3	1.8	.8	.3	.0	.0	6.2	93.8	390
12&15	.3	.0	.3	2.6	5.5	1.3	1.1	.5	.0	.3	11.8	88.2	380
18&21	.0	.0	.0	3.6	6.2	1.5	.5	.3	.0	.3	12.3	87.7	389
TOT	1	0	2	34	62	20	13	4	1	2	139	1358	1497
PCT	.1	.0	.1	2.3	4.1	1.3	.9	.3	.1	.1	9.3	90.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.4	.0	2.4	13.3	83.8	495
06&09	.0	.0	.0	.2	7.9	91.9	483
12&15	.0	.0	.0	.9	12.8	86.3	569
18&21	.0	.0	.0	.4	6.5	93.1	464
TOT	0	2	0	20	207	1782	2011
PCT	.0	.1	.0	1.0	10.3	88.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.8	4.6	92.6	323
06&09	.0	.3	1.1	5.3	93.7	379
12&15	.3	.5	3.2	8.9	87.9	371
18&21	.0	.0	4.0	8.8	87.2	375
TOT	1	3	40	101	1307	1448
PCT	.1	.2	2.8	7.0	90.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.1	.0	.0	2	.1
90/94	.0	.0	.1	.3	1.0	.4	.1	.0	30	2.0
85/89	.0	.0	.0	.0	1.7	4.7	1.1	.2	115	7.7
80/84	.0	.0	.0	.1	1.8	33.0	23.4	5.7	953	64.0
75/79	.0	.0	.0	.0	.1	6.4	16.8	2.8	389	26.1
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	2	8	69	663	617	131	1490	100.0
PCT	.0	.0	.1	.5	4.6	44.5	41.4	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	*	.0	.0	.0	.0	.0	.0
.0	.1	1.4	.5	.0	.0	.0	.0	.0	.0
.0	.3	5.0	2.4	.1	.0	.0	.0	.0	.0
.1	4.5	41.2	17.6	.4	.1	.0	.1	.0	.1
.1	3.3	17.6	5.1	.1	.0	.0	.0	.0	.0
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.2	8.2	65.3	25.7	.5	.1	.0	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	84	82	80	78	73	72	79.8	588
06&09	88	82	81	79	77	73	72	79.2	533
12&15	93	90	87	82	79	73	72	82.0	667
18&21	95	93	90	82	79	75	73	83.2	504
TOT	95	91	86	80	78	73	72	81.0	2292

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.5	36.8	52.6	10.1	83	367
06&09	.0	.3	1.1	30.2	58.2	10.2	83	361
12&15	.0	.7	4.8	49.0	34.4	11.0	80	418
18&21	.0	1.7	12.7	62.0	20.5	3.2	76	347
TOT	0	10	70	664	618	131	80	1493

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1882-1973

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.2	4	.0	.2
11/13	.0	.0	.0	.0	.0	.9	.2	18	.0	1.1
9/10	.0	.0	.0	.1	.2	.9	.0	20	.0	1.2
7/8	.0	.0	.0	.0	1.3	.7	.0	32	.0	2.0
6	.0	.0	.1	.3	1.7	.1	.0	36	.0	2.2
5	.0	.0	.2	.3	1.6	.1	.0	35	.0	2.2
4	.0	.0	.0	2.4	1.6	.0	.0	64	.0	4.0
3	.0	.0	.1	3.2	.7	.0	.0	65	.0	4.0
2	.0	.0	.5	6.7	.6	.0	.0	125	.0	7.8
1	.0	.0	2.8	9.3	.1	.0	.0	197	.2	12.1
0	.0	.0	10.0	8.5	.1	.0	.0	299	.5	18.1
-1	.0	.0	11.1	4.4	.0	.0	.0	249	.4	15.0
-2	.0	.1	11.8	2.4	.0	.0	.0	230	.0	14.3
-3	.0	.1	7.0	.5	.0	.0	.0	122	.0	7.6
-4	.0	.2	3.8	.2	.0	.0	.0	69	.0	4.3
-5	.0	.0	1.4	.2	.0	.0	.0	25	.0	1.6
-6	.0	.1	.7	.1	.0	.0	.0	14	.0	.9
-7/-8	.0	.1	.1	.0	.0	.0	.0	3	.0	.2
-9/-10	.1	.0	.0	.1	.0	.0	.0	2	.0	.1
TOTAL	1	9	797	623	127	45	7	1609	18	1591
PCT	.1	.6	49.5	38.7	7.9	2.8	.4	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.1	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.0	.5	.0	.0	.0	1.5
3-4	.0	1.9	2.4	.0	.0	.0	4.3
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.8	*	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.3	*	.0	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	5.9	4.2	.0	.0	.0	10.0
3-4	.2	6.9	17.4	.4	.0	.0	24.9
5-6	.0	1.8	17.9	1.6	.0	.0	21.3
7	.0	.8	4.5	1.3	.0	.0	6.6
8-9	.0	.2	.8	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	15.9	44.9	3.3	.0	.0	64.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	2.8	2.0	.0	.0	.0	4.8
3-4	.0	2.1	7.2	.2	.0	.0	9.5
5-6	.0	.8	7.7	.3	.0	.0	8.8
7	.0	.0	1.3	.9	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	18.4	1.4	.0	.0	25.8

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0004 FORTALEZA NW .75 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	9.8	6.8	.0	.0	.0	16.6	
3-4	.2	10.9	27.0	.6	.0	.0	38.7	
5-6	.0	2.6	28.3	1.9	.0	.0	32.8	
7	.0	.8	6.6	2.3	.0	.0	9.6	
8-9	.0	.2	.8	.0	.0	.0	.9	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	25.1	70.0	4.7	.0	.0	100.0	530

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	8.6	21.8	10.0	3.2	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	563	4
6-7	.0	.7	10.9	17.2	4.1	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	428	5
8-9	.0	.2	1.5	5.1	3.0	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	6
10-11	.0	.4	.6	.6	.6	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
12-13	.0	.0	.6	.6	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	.1	.4	1.1	2.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
TOTAL	9	129	455	442	147	41	18	3	1	0	0	0	0	0	0	0	0	0	0	1245	4
PCT	.7	10.4	36.5	35.5	11.8	3.3	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1870-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.4	1.2	.4	.0	.0	.0	.0	2.0	.2	.8	1.4	.0	.9	.0	94.6
E	.0	.6	.2	.0	.0	.0	.1	.8	1.0	.1	2.1	.0	.4	.0	95.6
SE	1.1	.6	.3	.0	.0	.0	.1	2.0	1.5	.1	.1	.0	.3	.0	95.9
S	.0	.0	15.4	.0	.0	.0	.0	15.4	23.1	.0	.0	.0	.0	.0	61.5
SW	40.0	.0	20.0	.0	.0	.0	.0	60.0	.0	.0	.0	.0	.0	.0	40.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.3	.7	.3	.0	.0	.0	.1	1.3	1.0	.2	1.6	.0	.4	.0	95.4
TOT OBS:	1813														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	.5	1.4	.5	.0	.0	.0	.0	2.3	1.8	.2	2.5	.0	.2	.0	92.9
06609	.5	.0	.0	.0	.0	.0	.0	.5	1.2	.7	1.4	.0	.2	.0	96.0
12615	.4	.4	.2	.0	.0	.0	.0	1.0	.4	.0	1.1	.0	.8	.0	96.7
18621	.0	.9	.5	.0	.0	.0	.2	1.6	.7	.0	1.4	.0	.5	.0	95.9
TOT PCT	.3	.7	.3	.0	.0	.0	.1	1.3	1.0	.2	1.6	.0	.4	.0	95.4
TOT OBS:	1822														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.3	.3	*	.0	.0		.6	12.3	1.0	.0	.4	.0	.5	.8	.4	3.9
NE	.4	6.3	7.3	.2	.0	.0		14.2	11.5	14.4	21.7	17.9	9.1	14.1	13.8	9.5	19.7
E	.4	22.8	39.8	1.5	.0	.0		64.5	13.0	62.5	63.6	63.0	76.1	67.2	60.0	66.6	48.7
SE	.4	5.9	13.5	.5	.0	.0		20.2	12.9	22.0	14.7	18.4	14.8	17.2	25.4	22.9	27.6
S	*	.1	*	.0	.0	.0		.2	8.1	.0	.0	.0	.0	.5	.0	.3	.0
SW	.0	.1	*	.0	.0	.0		.1	9.0	.2	.0	.0	.0	.2	.0	.1	.0
W	.0	.0	*	.0	.0	.0		*	14.0	.0	.0	.0	.0	.1	.0	.0	.0
NW	*	.1	*	.0	.0	.0		.1	6.0	.0	.0	.1	.0	.3	.0	.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.0	.0	.2	.0	.0	.0	.0	.0
TOT OBS	28	757	1298	48	0	0	2131		12.7	471	68	458	22	498	127	468	19
TOT PCT	1.3	35.5	60.9	2.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.4	.1	.0	.0		.6	12.3	.8	.4	.5	.6
NE	2.0	10.5	1.6	*	.0		14.2	11.5	15.3	17.5	14.0	9.9
E	4.6	46.1	13.8	*	.0		64.5	13.0	62.6	63.6	65.8	65.9
SE	1.7	14.7	3.8	*	.0		20.2	12.9	21.1	18.2	18.9	23.0
S	.1	.1	.0	.0	.0		.2	8.1	.0	.0	.4	.3
SW	.1	*	.0	.0	.0		.1	9.0	.2	.0	.2	.1
W	.0	*	.0	.0	.0		*	14.0	.0	.0	.1	.0
NW	.1	*	.0	.0	.0		.1	6.0	.0	.1	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.0	.2	.0	.0
TOT OBS	183	1533	412	3	0	2131		12.7	539	480	625	487
TOT PCT	8.6	71.9	19.3	.1	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1870-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.9	38.2	57.5	2.4	.0	.0	12.2	100.0	539
06&09	.2	.6	41.0	55.6	2.5	.0	.0	12.4	100.0	480
12&15	.0	1.1	32.5	64.2	2.2	.0	.0	13.1	100.0	625
18&21	.0	1.4	31.0	65.7	1.8	.0	.0	13.1	100.0	487
TOT	1	27	757	1298	48	0	0	12.7		2131
PCT	*	1.3	35.5	60.9	2.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.2	.1		4.5
NE	5.3	3.6	3.0	1.2		3.4
E	27.9	22.2	14.1	2.4		3.1
SE	7.5	6.4	4.4	1.0		3.3
S	.0	.0	.1	.1		7.4
SW	.0	.0	.1	.1		7.0
W	.0	.0	.0	*		8.0
NW	.1	.0	.1	*		4.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	602	476	322	73	1473	3.2
TOT PCT	40.9	32.3	21.9	5.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
NE	.0	.0	.1	.7	.6	.2	.3	.2	.0	.1	11.0	
E	.1	.0	.3	2.0	2.9	1.5	.6	.1	.0	.1	59.2	
SE	.0	.0	.2	.6	1.4	.2	.2	.0	.0	.0	16.4	
S	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
SW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	
NW	.0	.1	.0	*	.0	.0	*	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	1	9	51	74	31	17	4	0	2	1282	1473
TOT PCT	.1	.1	.6	3.5	5.0	2.1	1.2	.3	.0	.1	87.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >1000	8.1	8.7	8.7	8.7	8.8	8.8	8.8	8.8
* OR >600	11.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3
* OR >300	11.8	12.9	12.9	12.9	13.0	13.0	13.0	13.0
* OR >150	11.9	12.9	13.0	13.0	13.1	13.1	13.1	13.1
* OR > 0	12.0	13.1	13.2	13.2	13.2	13.2	13.2	13.2
TOTAL	177	193	194	194	195	195	195	195

TOTAL NUMBER OF OBS: 1475

PCT FREQ NH <5/8: 86.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.3	18.1	25.8	20.1	11.2	4.5	4.1	2.3	2.7	.0	1525

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1870-1973

AREA 0004 FORTALEZA NW
.75 40.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.1	.4	.2	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.2	.2	.2	*	.1	.0	.0	.0	.0	.7	
	NO PCP	.1	1.8	5.9	1.5	.0	.0	.0	.0	.0	.0	9.3	
	TOT %	.1	2.0	6.1	1.7	*	.1	.0	.0	.0	.0	10.0	
10+	PCP	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.5	11.4	58.6	17.8	.2	.1	*	.2	.0	.1	88.7	
	TOT %	.5	11.5	58.8	17.8	.2	.1	*	.2	.0	.1	89.0	
	TOT OBS												1808
	TOT PCT	.6	13.6	65.4	19.8	.2	.1	*	.2	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	.3	.2	.0	.0	.0	.0	.0	.0	.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	1.0	1.9	.8	*	.1	.0	.0	.0		3.9	
	11-21	.0	.8	3.6	.9	.0	.0	.0	.0	.0		5.3	
	22+	.0	.1	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	.1	1.9	5.7	1.7	*	.1	.0	.0	.0	.0	9.4	
10+	0-3	.0	.4	.5	.4	.1	.0	.0	.1	.0	.1	1.4	
	4-10	.2	4.8	20.7	5.1	*	.0	.0	.1	.0		30.9	
	11-21	.3	5.9	36.6	12.8	.1	.1	*	*	.0		55.7	
	22+	.0	.1	1.0	.4	.0	.0	.0	.0	.0		1.4	
	TOT %	.5	11.1	58.7	18.7	.1	.1	*	.1	.0	.1	89.4	
	TOT OBS												1963
	TOT PCT	.5	13.3	65.0	20.7	.2	.1	*	.1	.0	.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1870-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	.3	2.8	5.4	2.0	1.1	.3	.0	.0	12.1	87.9	355
06&09	.0	.0	1.4	2.7	4.1	.8	1.4	.0	.0	.5	11.0	89.0	364
12&15	.2	.0	.5	3.2	5.5	2.5	1.0	.5	.0	.0	13.4	86.6	403
18&21	.0	.3	.5	4.8	5.1	2.8	1.0	.3	.0	.0	14.8	85.2	392
TOT	2	1	10	52	76	31	17	4	0	2	195	1319	1514
PCT	.1	.1	.7	3.4	5.0	2.0	1.1	.3	.0	.1	12.9	87.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.6	.4	1.0	12.6	85.2	493
06&09	.0	.0	.0	.7	7.7	91.7	456
12&15	.0	.4	.4	.4	10.0	88.9	568
18&21	.0	.0	.2	.4	7.0	92.3	455
TOT	1	5	5	12	186	1763	1972
PCT	.1	.3	.3	.6	9.4	89.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	.6	3.4	8.8	87.7	351
06&09	.0	1.4	4.8	7.0	88.2	356
12&15	.3	1.0	4.4	9.5	86.1	389
18&21	.0	.8	6.1	9.2	84.7	379
TOT	2	14	69	128	1278	1475
PCT	.1	.9	4.7	8.7	86.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0	4	.3
90/94	.0	.0	.0	.3	1.1	.6	.1	.1	33	2.2
85/89	.0	.0	.0	.3	2.2	5.2	1.2	.7	141	9.6
80/84	.0	.0	.0	.1	2.2	26.9	31.3	8.7	1019	69.2
75/79	.0	.0	.0	.0	.2	2.6	11.3	4.3	272	18.5
70/74	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	0	12	87	521	646	206	1472	100.0
PCT	.0	.0	.0	.8	5.9	35.4	43.9	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
.0	.2	1.4	.7	.0	.0	.0	.0	.0	.0
.0	.9	7.2	1.4	.0	.0	.0	.1	.0	.0
.5	8.8	46.9	12.7	.1	.0	*	.1	.0	.1
*	3.5	10.9	3.9	.1	.1	.0	.0	.0	.0
.0	.0	.1	.1	.0	.1	.0	.0	.0	.0
.5	13.3	66.6	18.9	.2	.1	*	.2	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	85	83	80	78	75	74	80.3	529
06&09	93	83	82	80	77	76	71	79.5	479
12&15	94	90	88	82	79	77	70	82.4	614
18&21	97	94	91	82	79	77	74	83.3	483
TOT	97	91	87	81	78	76	70	81.4	2105

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	1.4	25.1	55.6	17.7	84	367
06&09	.0	.0	.9	20.3	62.9	15.9	84	343
12&15	.0	1.0	8.3	43.8	32.6	14.3	80	420
18&21	.0	2.0	13.0	50.9	26.3	7.8	77	346
TOT	0	12	88	522	649	207	81	1478

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1870-1973

AREA 0004 FORTALEZA NW
.7S 40.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.2	3	.0	.2
11/13	.0	.0	.0	.1	.0	.7	.5	20	.0	1.2
9/10	.0	.0	.0	.0	.2	.9	.0	17	.0	1.1
7/8	.0	.0	.0	.1	1.1	1.0	.0	35	.0	2.2
6	.0	.0	.0	.0	1.2	.1	.0	21	.0	1.3
5	.0	.1	.2	.1	2.2	.3	.0	45	.0	2.8
4	.0	.0	.1	1.4	2.2	.0	.0	60	.1	3.7
3	.0	.0	.0	3.4	1.2	.0	.0	74	.0	4.6
2	.0	.0	.3	8.0	.4	.0	.0	140	.2	8.5
1	.0	.0	1.2	10.1	.1	.0	.0	183	.2	11.1
0	.0	.0	7.8	13.4	.2	.1	.0	346	.8	20.7
-1	.0	.0	9.9	6.0	.0	.0	.0	255	.5	15.4
-2	.0	.1	9.7	2.1	.0	.0	.0	192	.0	12.0
-3	.0	.0	6.3	.4	.0	.0	.0	108	.0	6.7
-4	.0	.1	2.9	.4	.0	.0	.0	55	.0	3.4
-5	.0	.1	1.1	.1	.0	.0	.0	20	.0	1.2
-6	.0	.1	.6	.1	.0	.0	.0	13	.0	.8
-7/-8	.1	.2	.7	.1	.0	.0	.0	16	.0	1.0
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	12	657	734	141	48	12	1606	29	1577
PCT	.1	.7	40.9	45.7	8.8	3.0	.7	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.2	.3	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.4	.0	.0	.0	.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.2	.0	.0	.0	.4
1-2	.0	1.5	1.3	.0	.0	.0	2.8
3-4	.0	2.3	4.0	.0	.0	.0	6.3
5-6	.0	.5	4.0	.0	.0	.0	4.6
7	.0	.0	1.1	.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	10.6	.2	.0	.0	15.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.3	6.5	3.8	.0	.0	.0	10.6
3-4	.0	10.5	18.3	.2	.0	.0	29.0
5-6	.0	1.5	16.2	.6	.0	.0	18.3
7	.0	.2	3.5	.5	.0	.0	4.2
8-9	.0	.0	.5	.3	.0	.0	.8
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	19.3	42.5	1.6	.0	.0	63.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	*	1.8	2.0	.0	.0	.0	3.8
3-4	.0	1.5	6.5	.0	.0	.0	8.0
5-6	.0	.7	5.1	.5	.0	.0	6.4
7	.0	.0	1.0	*	.0	.0	1.0
8-9	.0	.0	.4	.1	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	4.2	15.2	.6	.0	.0	20.1

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0004 FORTALEZA NW

TABLE 18 (CONT) .7S 40.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.2	1.1	.2	.0	.0	.0	1.5	
1-2	.4	9.9	7.1	.0	.0	.0	17.4	
3-4	.0	14.3	28.9	.2	.0	.0	43.4	
5-6	.0	2.9	25.6	1.1	.0	.0	29.7	
7	.0	.2	5.5	.7	.0	.0	6.4	
8-9	.0	.0	.9	.4	.0	.0	1.3	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	28.4	68.7	2.4	.0	.0	100.0	546

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	7.8	23.2	10.1	3.3	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	589	4
6-7	.0	1.1	11.5	16.1	4.8	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	431	5
8-9	.0	.5	1.3	5.3	3.9	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	6
10-11	.0	.2	.7	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	.5	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
>13	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDET	.3	.6	1.8	.9	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	4
TOTAL	17	130	497	423	161	26	11	5	3	0	0	0	0	0	0	0	0	0	0	1273	4
PCT	1.3	10.2	39.0	33.2	12.6	2.0	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	2.1	1.6	1.3	.0	.0	.0	*	4.8	2.7	.6	.0	.0	.4		.0	91.4
NE	1.9	1.8	.7	.0	.0	.0	*	4.3	2.3	.6	.7	.0	.3		.0	91.7
E	1.5	1.4	.7	.0	.0	.0	*	3.6	2.2	.4	.6	.0	.5		*	92.7
SE	2.1	1.5	.8	.0	.0	.0	*	4.3	2.4	.5	.3	.0	.5		*	92.0
S	5.0	3.7	3.1	.0	.0	.0	.1	11.7	7.3	.1	1.0	.0	.2		.0	79.8
SW	7.1	2.4	2.3	.0	.0	.0	.0	11.8	2.0	.0	.0	.0	.0		.0	86.2
W	3.2	.0	4.5	.0	.0	.0	.0	7.8	6.7	.6	.0	.0	.0		.0	60.0
NW	4.4	1.9	1.7	.0	.0	.0	.0	7.2	2.3	.7	.0	.0	.3		.0	81.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.2	.8	1.1	.0	.0	.0	.0	4.1	1.7	.3	.0	.0	.0		.0	94.0
TOT PCT	1.9	1.6	.9	.0	.0	.0	*	4.3	2.5	.5	.5	.0	.5		*	91.8
TOT OBS: 22013																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00603	2.0	1.7	.9	.0	.0	.0	.1	4.6	2.4	1.0	.7	.0	.4		*	91.0
06609	2.0	1.3	.9	.0	.0	.0	.0	4.1	3.1	.9	.3	.0	.4		.0	91.1
12615	1.7	1.6	.7	.0	.0	.0	*	3.9	1.7	*	.5	.0	.6		*	93.2
18621	2.0	1.9	1.0	.0	.0	.0	*	4.8	2.9	*	.4	.0	.7		*	91.2
TOT PCT	1.9	1.6	.9	.0	.0	.0	*	4.3	2.5	.5	.5	.0	.5		*	91.7
TOT OBS: 22172																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.8	1.0	*	.0	.0		3.1	8.9	3.1	2.8	3.4	4.3	3.0	2.5	2.9	3.5
NE	.6	8.1	7.1	.3	.0	.0		16.0	11.4	16.0	20.3	18.5	16.3	15.4	14.7	13.7	18.6
E	.9	17.1	28.9	1.9	*	.0		48.8	12.7	49.1	50.8	50.9	50.9	49.5	47.5	45.4	49.7
SE	.4	8.1	18.5	1.4	*	.0		28.5	13.0	28.4	23.2	23.5	23.8	28.5	32.3	33.9	24.7
S	.1	.8	1.0	.1	.0	.0		2.0	11.5	1.8	1.3	1.7	2.3	2.3	1.9	2.3	.7
SW	*	.2	.1	.0	.0	.0		.3	10.1	.2	.3	.2	.2	.3	.3	.3	1.4
W	*	.1	.1	*	.0	.0		.3	10.0	.2	.3	.2	1.8	.2	.4	.3	.5
NW	.1	.4	.1	.0	.0	.0		.5	7.3	.6	.5	.6	.2	.4	.4	.5	.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.7	.4	1.0	.3	.3	.2	.6	.2
TOT OBS							26617		12.6	5848	1117	5521	359	5991	1851	5576	354
TOT PCT	3.0	36.5	56.8	3.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	1.8	.2	*	.0		3.1	8.9	3.0	3.5	2.9	3.0
NE	2.9	11.2	1.9	*	.0		16.0	11.4	16.6	18.3	15.2	14.0
E	4.9	32.8	10.9	.1	*		48.8	12.7	49.3	50.9	49.1	45.7
SE	2.4	18.0	8.0	.2	*		28.5	13.0	27.6	23.6	29.4	33.3
S	.3	1.3	.3	*	.0		2.0	11.5	1.7	1.7	2.2	2.2
SW	.1	.2	*	.0	.0		.3	10.1	.2	.2	.3	.4
W	.1	.1	*	*	.0		.3	10.0	.2	.3	.3	.3
NW	.2	.3	*	.0	.0		.5	7.3	.6	.6	.4	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.6	1.0	.3	.6
TOT OBS						26617		12.6	6965	5880	7842	5930
TOT PCT	12.6	65.7	21.4	.3	*		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0004 FORTALEZA NW
,7S 40,5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.6	2.5	38.4	54.8	3.6	*	.0	12.3	100.0	6965
06&09	1.0	2.1	38.9	55.0	3.0	*	.0	12.3	100.0	5880
12&15	.3	2.8	35.8	56.7	4.4	*	.0	12.7	100.0	7842
18&21	.6	2.0	32.9	60.9	3.6	*	.0	12.9	100.0	5930
TOT								12.6		26617
PCT	.6	2.4	36.5	56.8	3.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.6	1.3	.8		4.2
NE	3.7	3.9	5.4	2.6		3.8
E	19.4	14.8	11.3	3.8		3.5
SE	10.5	8.7	7.0	2.1		3.8
S	.6	.5	.6	.4		4.8
SW	*	*	.1	.1		4.6
W	*	*	.1	.1		4.8
NW	.1	.1	.2	.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	.1		3.7
TOT OBS					17190	3.8
TOT PCT	34.9	28.7	26.2	10.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.4	.5	.2	.1	*	*	.0	1.8	
NE	.1	*	.3	1.3	1.8	.6	.3	.1	*	*	11.0	
E	.2	.1	.5	2.2	3.2	1.5	.6	.1	.1	.1	40.6	
SE	.1	*	.3	1.2	2.2	1.0	.5	.1	*	*	22.9	
S	*	*	*	.2	.3	.1	*	.0	.0	.0	1.4	
SW	*	*	*	*	.1	*	*	.0	.0	.0	.1	
W	.0	*	*	.1	*	*	*	.0	.0	*	.1	
NW	*	*	*	.1	.1	.1	*	*	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	*	.1	.1	*	.0	.0	.0	.0	.4	
TOT OBS												17190
TOT PCT	.5	.3	1.2	5.5	8.2	3.6	1.6	.3	.1	.2	78.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.8	2.1	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	4.7	5.6	5.8	5.8	5.8	5.8	5.8	5.8
* OR >1000	11.4	13.6	13.9	14.0	14.0	14.0	14.1	14.1
* OR >600	15.8	18.9	19.4	19.5	19.5	19.5	19.6	19.6
* OR >300	16.6	20.0	20.6	20.7	20.7	20.7	20.8	20.8
* OR >150	16.7	20.3	20.8	20.9	21.0	21.0	21.0	21.0
* OR > 0	16.9	20.6	21.2	21.3	21.4	21.5	21.5	21.5

TOTAL NUMBER OF OBS: 17197 PCT FREQ NH <5/8: 78.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.0	15.0	22.1	19.5	11.8	6.3	5.4	4.0	5.6 .3	18002

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	*	*	.0	.0	.0	.0	.0	*	*	
<1/2	NO PCP	.0	*	*	*	.0	.0	*	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	.0	*	.0	.0	*	.1	
	PCP	*	*	*	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	*	*	*	.0	.0	*	.0	.0	.0	.1	
	TOT %	*	*	.1	*	*	.0	*	.0	.0	.0	.2	
	PCP	*	*	.1	*	*	*	*	*	.0	*	.1	
1<2	NO PCP	*	*	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	*	*	*	*	*	.0	*	.2	
	PCP	*	.1	.2	.1	*	*	.0	*	.0	*	.4	
2<5	NO PCP	*	.1	.6	.3	*	*	*	*	.0	.0	1.1	
	TOT %	.1	.2	.7	.4	.1	*	*	*	.0	*	1.6	
	PCP	.1	.6	.7	.5	.1	*	*	*	.0	*	2.0	
5<10	NO PCP	.5	2.2	5.1	2.5	.3	.1	.1	.1	.0	*	10.9	
	TOT %	.6	2.8	5.8	3.0	.3	.1	.1	.2	.0	*	12.9	
	PCP	.1	.4	.6	.4	.1	*	*	*	.0	*	1.6	
10+	NO PCP	2.3	12.2	41.8	24.6	1.5	.2	.1	.3	.0	.5	83.5	
	TOT %	2.4	12.6	42.4	25.0	1.6	.2	.1	.4	.0	.5	85.1	
	TOT OBS												21930
	TOT PCT	3.2	15.7	49.1	28.4	2.0	.3	.2	.5	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
<1/2	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	.0	.0	*	.0	.0	*	.1	
	0-3	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	*	*	*	*	*	.0	.0	.0	.0		.1	
	22+	*	*	*	.0	*	.0	*	.0	.0		*	
	TOT %	*	.1	.1	.1	*	.0	*	.0	.0	.0	.2	
	0-3	*	*	*	*	.0	.0	.0	.0	.0	*	*	
1<2	4-10	*	*	.1	*	*	*	*	.0	.0		.1	
	11-21	.0	*	.1	*	.0	.0	.0	*	.0		.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.2	*	*	*	*	*	.0	*	.4	
	0-3	*	*	*	*	*	*	.0	.0	.0	*	.1	
2<5	4-10	*	.1	.3	.2	*	*	*	*	.0		.7	
	11-21	*	.1	.4	.2	*	*	*	*	.0		.8	
	22+	*	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	.8	.4	.1	*	*	*	.0	*	1.6	
	0-3	.1	.1	.1	*	*	*	*	*	.0	.1	.4	
5<10	4-10	.4	1.3	2.1	.9	.1	.1	*	.1	.0		5.0	
	11-21	.2	1.3	3.2	1.8	.2	*	*	*	.0		6.7	
	22+	*	.1	.4	.3	*	.0	.0	.0	.0		.7	
	TOT %	.6	2.8	5.8	3.0	.3	.1	.1	.1	.0	.1	12.8	
	0-3	.2	.5	.7	.4	*	*	*	*	.0	.5	2.4	
10+	4-10	1.4	6.2	14.5	6.9	.6	.1	.1	.3	.0		30.0	
	11-21	.8	5.7	25.5	16.8	.8	.1	*	.1	.0		49.6	
	22+	.0	.2	1.4	1.2	.1	.0	.0	.0	.0		2.8	
	TOT %	2.4	12.5	42.0	25.3	1.6	.2	.1	.3	.0	.5	84.9	
	TOT OBS												23609
	TOT PCT	3.1	15.6	48.9	28.8	2.0	.3	.2	.5	.0	.6	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.2	1.1	4.7	6.8	2.8	1.1	.3	.1	.2	18.0	82.0	4205
06&09	.7	.3	1.2	5.4	8.1	3.5	1.6	.2	.1	.1	21.4	78.6	4350
12&15	.2	.3	1.0	5.8	8.9	3.7	1.8	.2	.1	.2	22.3	77.7	4613
18&21	.3	.2	1.3	5.4	8.2	4.0	1.5	.4	.2	.1	21.5	78.5	4650
TOT													17818
PCT	.5	.3	1.2	5.3	8.0	3.5	1.5	.3	.1	.2	20.8	79.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.4	.7	2.5	16.0	80.2	6032
06&09	.1	.1	.3	1.7	11.7	86.2	5406
12&15	*	.2	.3	1.2	13.5	84.8	6872
18&21	.1	.1	.2	1.2	10.1	88.3	5457
TOT							23767
PCT	.1	.2	.4	1.6	12.9	84.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	2.2	7.9	11.2	80.9	4039
06&09	.7	2.3	9.0	13.6	77.4	4190
12&15	.2	1.7	8.4	15.0	76.6	4472
18&21	.3	1.9	8.2	14.3	77.5	4496
TOT						17197
PCT	.4	2.0	8.4	13.6	78.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	*	*	.0	.0		.1
90/94	.0	.0	*	.2	.8	.4	.1	*		1.7
85/89	.0	.0	*	.2	1.9	4.5	1.5	.4		8.5
80/84	.0	.0	.0	.1	2.6	25.1	27.4	7.5		62.7
75/79	.0	.0	.0	.0	.1	4.7	14.2	7.5		26.5
70/74	.0	.0	.0	.0	.0	*	.1	.4		.5
65/69	.0	.0	.0	.0	.0	.0	.0	*		*
TOTAL									17257	100.0
PCT	.0	.0	*	.5	5.6	34.8	43.3	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
	*	.1	.8	.7	*	.0	*	*	.0	*
	.2	1.0	4.4	2.7	.3	*	*	*	.0	*
	2.0	10.8	31.2	17.0	.9	.1	.1	.3	.0	.3
	.9	4.1	12.9	7.4	.7	.1	.1	.2	.0	.3
	*	.1	.2	.1	*	*	*	*	.0	.0
	.0	.0	*	*	.0	.0	.0	.0	.0	.0
	3.1	16.0	49.6	27.9	1.9	.2	.2	.5	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	85	83	80	77	75	70	80.0	6861
06&09	93	83	82	80	76	74	69	79.3	5877
12&15	96	90	87	82	78	76	70	81.9	7701
18&21	98	93	90	82	78	75	68	82.9	5824
TOT	98	90	86	81	77	75	68	81.0	26263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	1.8	26.3	52.5	19.3	84	4392
06&09	.0	.1	1.0	22.4	56.6	19.9	84	3970
12&15	.0	.4	5.7	41.5	37.2	15.2	81	5035
18&21	.0	1.7	14.1	47.7	28.0	8.6	77	3976
TOT	0	100	963	6029	7543	2738	82	17373

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0004 FORTALEZA NW
.75 40.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	8	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.1	27	.0	.1
11/13	.0	.0	.0	.0	*	*	.4	.2	116	.0	.6
9/10	.0	.0	.0	.0	*	.2	.7	.1	202	.0	1.0
7/8	.0	.0	.0	*	.1	1.0	.7	*	357	.0	1.8
6	.0	.0	*	*	.2	1.1	.1	.0	257	.0	1.3
5	.0	.0	*	.1	.4	1.6	.1	.0	427	.0	2.2
4	.0	.0	.0	.1	1.8	1.5	*	*	666	*	3.4
3	.0	.0	.0	.2	2.6	1.2	*	.0	778	.0	4.0
2	.0	.0	*	.8	6.0	.9	*	.0	1481	.1	7.6
1	.0	.0	*	1.9	7.4	.4	.0	.0	1874	.1	9.6
0	.0	.0	*	7.3	10.2	.2	*	.0	3442	.2	17.6
-1	.0	.0	*	8.6	6.7	.1	.0	.0	2993	.2	15.3
-2	.0	.0	.1	9.8	4.0	*	.0	.0	2694	*	13.9
-3	.0	.0	.2	6.7	1.7	*	.0	.0	1670	*	8.6
-4	.0	.0	.4	4.6	.7	*	.0	.0	1087	.0	5.6
-5	.0	.0	.3	2.4	.3	*	.0	.0	581	.0	3.0
-6	.0	.0	.5	1.0	.1	.0	.0	.0	309	.0	1.6
-7/-8	*	*	.7	.7	.1	.0	.0	.0	297	.0	1.5
-9/-10	.0	*	.2	.1	*	.0	.0	.0	77	.0	.4
-11/-13	.0	*	.1	*	.0	.0	.0	.0	24	.0	.1
-14/-16	.0	*	*	.0	.0	.0	.0	.0	6	.0	*
TOTAL									19373		
PCT	*	.1	2.6	44.3	42.4	8.1	2.1	.4	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	*	1.0	.2	.0	.0	.0	1.2
3-4	.1	.5	.7	.0	.0	.0	1.3
5-6	*	.2	.4	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	1.5	.0	.0	.0	3.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.7	.1	.0	.0	.0	.7
1-2	.1	3.1	2.1	.0	.0	.0	5.3
3-4	*	2.6	3.9	.2	.0	.0	6.8
5-6	.0	.6	3.0	.1	.0	.0	3.7
7	.0	.1	.8	.1	.0	.0	1.0
8-9	.0	*	.1	.1	.0	.0	.2
10-11	.0	*	.1	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	7.2	9.9	.5	.0	.0	17.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.1
1-2	.2	6.2	4.6	.0	.0	.0	11.0
3-4	.1	5.8	13.0	.2	.0	.0	19.2
5-6	.1	1.4	9.4	.6	.0	.0	11.5
7	.0	.3	2.9	.6	.0	.0	3.8
8-9	.0	*	.5	.2	.0	.0	.8
10-11	.0	*	.1	.1	.0	.0	.2
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.7	30.6	1.8	.0	.0	47.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.1	3.0	2.6	.0	.0	.0	5.6
3-4	*	2.1	7.8	.2	.0	.0	10.1
5-6	*	.8	6.5	.4	.0	.0	7.7
7	.0	.1	2.0	.4	.0	.0	2.6
8-9	.0	*	.5	.2	.0	.0	.6
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.1	*	.0	.0	.1
13-16	.0	.0	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.5	19.7	1.3	.0	.0	27.7

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0004 FORTALEZA NW
.7S 40.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1
1-2	*	.3	.1	.0	.0	.0	.4
3-4	.0	.2	.5	*	.0	.0	.7
5-6	.0	.1	.3	*	.0	.0	.4
7	.0	.0	.1	*	.0	.0	.2
8-9	.0	*	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.6	1.1	.1	.0	.0	1.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1
1-2	.0	.1	*	.0	.0	.0	.1
3-4	.0	*	.1	.0	.0	.0	.1
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	.0	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1
1-2	*	.1	.1	.0	.0	.0	.2
3-4	.0	*	*	.0	.0	.0	.1
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	.0	.0	.0	.0	.2	
1-2	.0	.2	*	.0	.0	.0	.2	
3-4	.0	*	.1	.0	.0	.0	.1	
5-6	*	*	*	.0	.0	.0	*	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	*	.4	.2	.0	.0	.0	.6	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	2.7	.2	.0	.0	.0	3.9	
1-2	.5	14.0	9.7	.0	.0	.0	24.2	
3-4	.2	11.3	26.0	.7	.0	.0	38.2	
5-6	.1	3.1	19.6	1.1	.0	.0	23.9	
7	.0	.4	6.0	1.2	.0	.0	7.6	
8-9	.0	.1	1.1	.5	.0	.0	1.7	
10-11	.0	*	.2	.1	.0	.0	.4	
12	.0	.0	.1	*	.0	.0	.1	
13-16	.0	.0	.1	*	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	31.6	63.1	3.6	.0	.0	100.0	6105

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	10.9	21.1	9.3	2.5	.7	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6905	3
6-7	.1	1.4	10.3	15.0	4.9	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4991	5
8-9	*	.3	1.6	3.8	3.5	1.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1595	6
10-11	.0	.3	.4	.5	.6	.6	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	410	6
12-13	.0	.0	.4	.4	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	6
>13	.0	.0	.0	.3	.1	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	80	7
INDET	.8	1.0	1.7	1.0	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	761	3
TOTAL																				14939	4
PCT	2.4	14.0	35.5	30.2	12.4	3.8	1.1	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.1	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	3	*
89/90	.2	.1	.0	.8	.0	.2	.1	.0	*	.2	*	.1	37	.1
87/88	.3	.2	.6	1.5	.2	.5	.1	*	*	.3	.1	.2	84	.3
85/86	1.5	4.4	5.0	8.6	5.9	3.9	1.3	.7	.6	.8	1.3	1.4	724	2.9
83/84	14.1	20.6	31.6	36.8	36.5	20.0	7.8	4.5	4.2	6.1	9.4	10.0	4160	16.8
81/82	59.9	57.6	49.0	43.9	47.8	55.6	43.1	25.5	28.6	33.6	44.0	54.6	11136	45.1
79/80	21.8	15.3	12.0	7.5	8.3	18.2	39.5	53.5	52.0	50.0	41.2	30.4	7228	29.3
77/78	1.4	1.4	1.6	.7	1.0	1.5	7.5	14.0	12.6	7.9	3.6	2.9	1156	4.7
75/76	.2	.5	.3	.1	.3	.0	.5	1.2	1.7	.7	.2	.3	123	.5
73/74	.1	.0	.0	*	.1	.1	.1	.4	.2	.0	.1	.2	28	.1
71/72	.3	.0	.0	.0	.0	.1	.0	*	.0	*	*	.1	12	*
69/70	.1	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.1	5	*
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2083	1946	2374	2031	2030	1773	2030	2025	2095	2118	2197	1994	24696	100.0
MEAN	81.4	81.7	82.1	82.6	82.3	81.7	80.6	79.9	79.9	80.3	80.7	81.0	81.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1010	1010	1012	1012	1010	1010	1011	1970
FEB	1011	1011	1010	1010	1012	1011	1010	1010	1011	1820
MAR	1011	1012	1010	1011	1012	1012	1010	1010	1011	2194
APR	1012	1012	1010	1012	1013	1013	1010	1011	1012	1858
MAY	1013	1012	1011	1011	1013	1013	1011	1010	1012	1880
JUN	1014	1013	1012	1013	1014	1014	1012	1013	1013	1739
JUL	1014	1014	1013	1014	1015	1014	1013	1013	1014	2013
AUG	1014	1014	1013	1013	1014	1014	1013	1013	1013	1841
SEP	1014	1013	1012	1013	1014	1014	1012	1012	1013	2012
OCT	1012	1011	1011	1011	1013	1013	1011	1010	1012	2010
NOV	1011	1011	1010	1010	1012	1012	1010	1010	1011	1900
DEC	1011	1010	1010	1009	1012	1010	1010	1008	1011	1866
ANN	1012	1012	1011	1011	1013	1013	1011	1011	1012	23103
OBS	5157	646	4969	358	5355	1263	5005	350		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1006	1008	1010	1011	1012	1014	1017	1020
FEB	1001	1005	1007	1010	1011	1012	1014	1017	1019
MAR	999	1005	1007	1010	1011	1012	1015	1017	1021
APR	1003	1006	1008	1010	1011	1013	1015	1017	1024
MAY	1002	1006	1008	1011	1012	1013	1015	1017	1021
JUN	1001	1006	1009	1012	1013	1015	1017	1019	1023
JUL	1005	1009	1011	1013	1014	1015	1017	1019	1022
AUG	1002	1008	1010	1012	1013	1015	1017	1019	1024
SEP	1005	1008	1010	1012	1013	1014	1016	1019	1022
OCT	1001	1006	1008	1011	1012	1013	1015	1018	1021
NOV	1001	1005	1007	1009	1011	1012	1014	1016	1020
DEC	1000	1003	1007	1009	1011	1012	1014	1016	1020

JANUARY

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1856-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	4.1	.0	.0	.0	.0	.0	4.1	3.1	.0	.0	.0	.0	.0		92.8
NE	.6	1.6	.1	.0	.0	.0	.0	2.2	3.7	1.1	.0	.0	.0	.0		93.0
E	.5	1.2	.2	.0	.0	.0	.0	1.8	1.2	.7	.1	.0	.3	.0		95.8
SE	.7	1.4	.1	.0	.0	.0	.0	2.2	2.1	.4	.1	.0	.2	.1		95.0
S	.0	1.8	1.6	.0	.0	.0	.0	3.3	2.7	.0	.0	.0	.0	.0		94.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0		95.7
W	30.8	.0	.0	.0	.0	.0	.0	30.8	15.4	.0	.0	.0	.0	.0		53.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	5.3	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	.0		89.5
TOT PCT	.6	1.3	.2	.0	.0	.0	.0	2.1	1.9	.5	.1	.0	.2	*		95.1
TOT OBS:	4029															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	1.7	.2	.0	.0	.0	.0	2.2	2.2	1.2	.0	.0	.0	.0		94.4
06&09	.7	1.3	.1	.0	.0	.0	.0	2.1	1.7	.9	.2	.0	.1	.0		95.1
12&15	.9	.9	.4	.0	.0	.0	.0	2.1	2.0	.0	.1	.0	.3	.1		95.5
18&21	.7	1.8	.1	.0	.0	.0	.0	2.6	1.8	.1	.0	.0	.4	.0		95.1
TOT PCT	.6	1.4	.2	.0	.0	.0	.0	2.2	1.9	.5	.1	.0	.2	*		95.0
TOT OBS:	4052															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.2	.1	*	.0	.0		.4	8.1	.6	.4	.6	.1	.5	.1	.4	.3
NE	.3	2.7	1.2	*	.0	.0		4.3	9.0	5.4	3.7	4.7	4.0	4.4	4.1	3.4	4.7
E	.7	19.2	15.3	.4	.0	.0		35.6	10.7	41.6	31.7	37.0	33.9	41.5	32.8	33.9	31.4
SE	.7	25.4	28.3	1.0	.0	.0		55.4	11.6	48.4	59.3	53.8	56.8	50.2	58.3	58.7	57.7
S	.2	1.7	1.4	.1	.0	.0		3.3	10.7	2.9	4.3	3.0	3.8	2.8	3.9	2.6	4.3
SW	.1	.3	*	.0	.0	.0		.4	6.5	.2	.2	.1	1.0	.2	.6	.3	.8
W	*	.1	*	.0	.0	.0		.1	8.7	.3	.1	.1	.2	.0	.1	.1	.1
NW	*	.1	*	.0	.0	.0		.1	7.9	.1	.1	.1	.1	.1	.1	.1	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.5	.3	.6	.1	.2	.1	.5	.6
TOT OBS	223	4500	4199	134	0	0	9056		11.1	962	786	1741	908	985	1045	1740	889
TOT PCT	2.5	49.7	46.4	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.2	*	.0	.0		.4	8.1	.5	.4	.3	.4
NE	1.3	2.8	.2	.0	.0		4.3	9.0	4.6	4.5	4.3	3.8
E	5.6	26.6	3.3	*	.0		35.6	10.7	37.2	36.0	37.0	33.1
SE	5.8	41.3	8.2	.1	.0		55.4	11.6	53.3	54.8	54.4	58.3
S	.8	2.0	.5	*	.0		3.3	10.7	3.5	3.2	3.4	3.2
SW	.2	.1	*	.0	.0		.4	6.5	.2	.4	.4	.5
W	*	.1	.0	.0	.0		.1	8.7	.2	.1	.1	.1
NW	*	*	.0	.0	.0		.1	7.9	.1	.1	.1	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.4	.5	.1	.5
TOT OBS	1304	6624	1117	11	0	9056		11.1	1748	2649	2030	2629
TOT PCT	14.4	73.1	12.3	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1856-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	1.7	51.3	45.4	1.3	.0	.0	[illegible].1	100.0	1748
06&09	.5	2.2	51.7	43.8	1.8	.0	.0	10.8	100.0	2649
12&15	.1	2.2	46.7	49.6	1.4	.0	.0	11.3	100.0	2030
18&21	.5	2.1	49.0	47.1	1.4	.0	.0	11.1	100.0	2629
TOT	35	188	4500	4199	134	0	0	11.1		9056
PCT	.4	2.1	49.7	46.4	1.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.2	.1		5.0
NE	1.7	1.6	1.0	.4		3.5
E	16.2	13.8	10.0	2.1		3.4
SE	19.6	16.0	11.1	2.4		3.3
S	.8	.7	.7	.2		3.9
SW	.1	*	*	.1		4.4
W	*	*	*	.1		5.0
NW	*	.0	*	*		5.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	.1		4.3
TOT OBS	1244	1038	750	176	3208	3.4
TOT PCT	38.8	32.4	23.4	5.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.3	
NE	.0	.0	.1	.3	.4	.1	.1	*	.0	.0	3.8	
E	.1	*	.2	1.7	2.3	.9	.5	.1	.1	.1	36.1	
SE	*	.0	.2	1.7	2.4	1.4	.8	.1	*	.0	42.4	
S	*	.0	*	.3	.1	.2	.0	.0	.0	.0	1.9	
SW	.0	.0	*	.1	.0	*	.0	.0	.0	.0	.1	
W	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.1	.0	.0	*	.0	.0	.4	
TOT OBS	8	1	17	133	173	82	49	8	3	2	2732	3208
TOT PCT	.2	*	.5	4.1	5.4	2.6	1.5	.2	.1	.1	85.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.3	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >1000	8.3	9.7	9.9	9.9	9.9	9.9	9.9	9.9
* OR >600	11.5	13.7	14.0	14.1	14.1	14.1	14.1	14.1
* OR >300	11.8	14.2	14.6	14.6	14.6	14.6	14.6	14.6
* OR >150	11.8	14.3	14.6	14.7	14.7	14.7	14.7	14.7
* OR > 0	11.9	14.4	14.8	14.9	14.9	14.9	14.9	14.9
TOTAL	382	461	475	476	477	477	477	477

TOTAL NUMBER OF OBS: 3199

PCT FREQ NH <5/8: 85.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.2	18.7	25.3	21.1	11.8	5.3	4.2	2.5	2.7 .1	3422

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1856-1974

AREA 0005 NATAL
4.45 33.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	*	.1	*	.0	.0	*	.0	.0	.0	.2	
	NO PCP	.0	*	.5	.5	.1	*	.0	.0	.0	.0	1.1	
	TOT %	.0	.1	.6	.5	.1	*	*	.0	.0	.0	1.3	
5<10	PCP	.0	*	.3	.6	*	.0	.0	.0	.0	*	1.1	
	NO PCP	.1	.6	2.9	4.7	.4	.1	.0	*	.0	.0	8.9	
	TOT %	.1	.7	3.2	5.4	.5	.1	.0	*	.0	*	10.0	
10+	PCP	*	*	.3	.4	*	.0	.0	.0	.0	.0	.8	
	NO PCP	.5	4.3	36.6	43.0	2.2	.5	.1	*	.0	.4	87.7	
	TOT %	.5	4.4	36.9	43.4	2.2	.5	.1	*	.0	.4	88.5	
	TOT OBS												4017
	TOT PCT	.6	5.1	40.9	49.3	2.8	.6	.2	.1	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	*	.1	.2	*	.0	*	.0	.0		.4	
	11-21	.0	*	.3	.1	*	*	*	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.5	.4	.1	*	*	.0	.0	*	1.0	
5<10	0-3	.0	.1	.1	.1	*	.0	.0	.0	.0	*	.3	
	4-10	.1	.2	1.5	2.2	.2	*	.0	*	.0		4.2	
	11-21	*	.3	1.2	2.4	.2	*	.0	*	.0		4.1	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	.1	.6	2.8	4.8	.4	*	.0	*	.0	*	8.7	
10+	0-3	.1	.3	.6	.6	.1	.1	*	*	.0	.4	2.2	
	4-10	.2	2.8	19.2	22.6	1.5	.3	.1	*	.0		46.7	
	11-21	.1	1.1	14.7	23.5	.7	*	*	.0	.0		40.2	
	22+	*	.0	.3	.5	*	.0	.0	.0	.0		.8	
	TOT %	.4	4.2	34.8	47.2	2.4	.4	.1	*	.0	.4	89.9	
	TOT OBS												6121
	TOT PCT	.5	4.9	38.1	52.5	2.9	.4	.1	.1	.0	.4	100.0	

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1856-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.0	.5	2.8	4.1	2.5	1.2	.1	.0	.1	11.4	88.6	813
06&09	.1	.1	.6	4.2	3.8	2.0	1.5	.1	.1	.0	12.7	87.3	837
12&15	.3	.0	.6	4.3	7.1	3.1	1.9	.3	.1	.1	17.8	82.2	864
18&21	.3	.0	.5	4.3	5.5	2.0	1.3	.3	.1	.0	14.3	85.7	879
TOT	8	1	18	133	174	82	50	8	3	2	479	2914	3393
PCT	.2	*	.5	3.9	5.1	2.4	1.5	.2	.1	.1	14.1	85.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.1	1.6	8.8	89.4	1289
06&09	.2	.1	.2	.6	10.5	88.4	1715
12&15	.0	.0	.2	.9	6.8	92.1	1429
18&21	.0	.2	.3	1.2	8.6	89.7	1712
TOT	5	5	12	64	539	5520	6145
PCT	.1	.1	.2	1.0	8.8	89.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	.8	4.5	8.3	87.3	763
06&09	.1	1.2	6.3	7.8	85.9	782
12&15	.4	1.0	6.2	13.0	80.7	820
18&21	.4	.8	6.0	9.5	84.5	834
TOT	8	30	184	310	2705	3199
PCT	.3	.9	5.8	9.7	84.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	.0	.0	.0	2	.1
90/94	.0	.0	.0	.2	.4	.2	.1	.2	30	.9
85/89	.0	.0	.0	.3	1.2	3.3	1.0	1.2	232	7.0
80/84	.0	.0	*	.2	3.1	32.8	27.1	6.6	2309	69.7
75/79	.0	.0	.0	.0	.1	5.9	12.1	4.2	738	22.3
70/74	.0	.0	.0	.0	.0	.0	.0	.1	4	.1
TOTAL	0	0	1	20	160	1394	1333	407	3315	100.0
PCT	.0	.0	*	.6	4.8	42.1	40.2	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	.0	.0	.0	.0	.0	.0
.0	.1	.5	.2	.1	*	.0	.0	.0	.0
.1	.4	3.5	2.5	.3	.2	*	.0	.0	.0
.2	2.9	28.2	35.8	1.7	.3	*	*	.0	.4
.3	1.5	9.2	10.3	.6	.1	.1	*	.0	.2
.0	.0	.1	*	*	.0	*	.0	.0	.0
.6	4.9	41.5	48.9	2.7	.6	.2	.1	.0	.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	83	82	80	77	76	68	79.8	1740
06&09	92	84	82	80	77	75	67	79.6	2629
12&15	93	89	86	82	79	77	72	82.0	1977
18&21	97	90	86	81	79	76	71	81.5	2561
TOT	97	88	85	80	78	76	67	80.7	8907

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	.9	36.3	51.3	11.1	82	766
06&09	.0	.2	1.2	32.1	49.5	16.9	83	886
12&15	.0	.6	7.9	48.9	31.1	11.5	79	834
18&21	.0	1.4	9.0	50.9	29.3	9.4	78	847
TOT	0	22	160	1401	1339	411	81	3333

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1856-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	*	*	.3	13	.0	.4
9/10	.0	.0	.0	.0	*	.1	.3	*	15	.0	.4
7/8	.0	.0	.0	.0	.1	.4	.3	.0	27	.0	.8
6	.0	.0	.0	.0	.3	.7	*	*	36	.0	1.0
5	.0	.0	.0	*	.4	1.3	.1	.0	63	.0	1.8
4	.0	.0	.0	.1	1.1	1.3	*	.0	89	.0	2.5
3	.0	.0	.0	.1	2.4	1.2	.0	.0	129	*	3.6
2	.0	.0	.0	.4	6.2	.6	.0	.0	253	.1	7.1
1	.0	.0	.0	1.6	9.8	.1	.0	.0	403	.0	11.5
0	.0	.0	*	8.7	13.7	.1	.0	.0	792	.0	22.5
-1	.0	.0	.0	12.9	7.3	.0	.0	.0	709	.0	20.2
-2	.0	.0	.1	10.5	2.9	.0	.0	.0	473	.0	13.5
-3	.0	.0	.1	5.7	1.3	.0	.0	.0	247	.0	7.0
-4	.0	.0	.1	3.2	.5	.0	.0	.0	137	.0	3.9
-5	.0	.0	.2	1.4	.1	*	.0	.0	62	.0	1.8
-6	.0	.0	.2	.6	*	.0	.0	.0	29	.0	.8
-7/-8	.0	.0	.3	.4	*	.0	.0	.0	25	.0	.7
-9/-10	.0	.0	.1	.1	*	.0	.0	.0	8	.0	.2
-11/-13	.0	*	.0	*	.0	.0	.0	.0	2	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	1	39	1606	1619	209	25	15	3516	3	3513
PCT	.1	*	1.1	45.7	46.0	5.9	.7	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.1	.1	.1	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.2	.1	.0	.0	.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	1.8	.5	.0	.0	.0	2.4
3-4	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	2.0	.0	.0	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.1
1-2	.3	13.1	4.5	.0	.0	.0	17.9
3-4	.0	8.1	10.2	.1	.0	.0	18.5
5-6	.0	1.8	5.4	.3	.0	.0	7.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	24.0	20.7	.4	.0	.0	45.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.5	.1	.0	.0	.0	.6
1-2	.5	10.9	5.8	.0	.0	.0	17.2
3-4	.1	8.7	9.7	.1	.0	.0	18.6
5-6	.0	1.8	5.5	*	.0	.0	7.4
7	.0	.2	.8	.1	.0	.0	1.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	22.1	22.1	.2	.0	.0	45.1

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0005 NATAL 4.4S 33.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.2	.0	.0	.0	1.4	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.5	.4	.0	.0	.0	.9	.0	.0	*	.0	.0	.0	*
5-6	.0	.2	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.8	.0	.0	.0	2.7	.0	.1	*	.0	.0	.0	.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.2	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	2.0	.1	.0	.0	.0	2.9	
1-2	1.2	27.2	10.9	.0	.0	.0	39.3	
3-4	.2	18.2	21.8	.2	.0	.0	40.3	
5-6	.0	3.9	11.2	.3	.0	.0	15.4	
7	.0	.2	1.2	.1	.0	.0	1.5	
8-9	.0	.0	.5	.1	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1289
TOT PCT	2.1	51.4	45.8	.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	10.3	20.1	8.1	1.7	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1163	3
6-7	.0	1.9	12.1	13.0	3.1	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	876	4
8-9	.0	.5	1.5	3.4	2.3	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238	5
10-11	.0	.5	.6	1.1	.3	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	5
12-13	.0	.0	1.2	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	5
>13	.0	.0	.0	.1	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
INDET	.8	4.0	4.2	2.8	.7	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	354	3
TOTAL	57	476	1105	799	237	78	22	4	0	0	0	0	0	0	0	0	0	0	0	2778	4
PCT	2.1	17.1	39.8	28.8	8.5	2.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1855-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	7.8	1.5	.0	.0	.0	.0	12.7	2.9	.0	.0	.0	.0		.0	84.3
NE	1.7	2.2	1.0	.0	.0	.0	.0	4.9	3.4	1.1	.0	.0	1.3		.0	89.6
E	.7	1.7	.4	.0	.0	.0	.0	2.7	2.1	.7	.0	.0	.1		.0	94.3
SE	1.0	1.2	.3	.0	.0	.0	.0	2.5	1.8	.6	.1	.0	*		.0	95.1
S	3.5	3.9	1.6	.0	.0	.0	.0	9.0	2.5	.0	.0	.0	.0		.0	88.5
SW	6.3	6.3	.0	.0	.0	.0	.0	12.7	.0	.0	.0	.0	.0		.0	87.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	6.9	8.3	.0	.0	.0	.0	.0	15.3	11.1	.0	.0	.0	.0		.0	73.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.5	.0	.0	.0	.0	.0	2.5	7.5	.0	.0	.0	.0		.0	90.0
TOT PCT	1.1	1.7	.4	.0	.0	.0	.0	3.2	2.2	.6	.1	.0	.2		.0	93.7
TOT OBS:	3900															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.4	1.8	.6	.0	.0	.0	.0	2.8	3.0	1.4	.1	.0	.2		.0	92.5
06&09	1.4	2.9	.4	.0	.0	.0	.0	4.7	2.8	1.2	.0	.0	.2		.0	91.3
12&15	1.0	1.1	.4	.0	.0	.0	.0	2.5	1.3	.0	.0	.0	.1		.0	96.1
18&21	1.6	1.5	.4	.0	.0	.0	.0	3.5	2.1	.1	.1	.0	.3		.0	93.9
TOT PCT	1.1	1.8	.4	.0	.0	.0	.0	3.4	2.3	.6	.1	.0	.2		.0	93.5
TOT OBS:	3939															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	.8	.2	*	.0	.0		1.3	6.9	1.8	1.2	1.6	1.0	1.0	1.4	1.3	1.1
NE	.7	4.9	1.7	*	.0	.0		7.4	8.5	8.1	6.3	8.1	6.1	9.5	6.4	7.6	6.2
E	1.7	21.3	13.3	.3	*	.0		36.6	10.0	41.4	32.8	39.2	32.2	44.1	31.9	37.4	29.9
SE	1.9	25.3	20.8	.7	.0	.0		48.3	10.6	43.7	53.1	45.0	53.2	41.2	53.0	47.6	54.4
S	.2	1.9	1.4	.1	.0	.0		3.6	10.0	2.9	4.3	3.5	4.5	2.5	3.6	3.2	4.8
SW	.1	.3	*	.0	.0	.0		.4	6.5	.1	.5	.4	.4	.2	.6	.4	.5
W	.1	.2	*	.0	.0	.0		.3	6.6	.0	.3	.3	.2	.2	.6	.4	.4
NW	.1	.5	.1	.0	.0	.0		.7	7.2	.5	.6	.5	.9	.4	.8	.7	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.5	.8	1.4	1.5	.9	1.9	1.4	1.7
TOT OBS	531	4785	3262	92	1	0	8671		10.0	896	723	1614	895	988	1000	1689	866
TOT PCT	6.1	55.2	37.6	1.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	.5	*	*	.0		1.3	6.9	1.5	1.4	1.2	1.3
NE	2.7	4.5	.3	*	.0		7.4	8.5	7.3	7.4	7.9	7.1
E	7.7	26.5	2.4	*	.0		36.6	10.0	37.6	36.7	38.0	34.8
SE	8.4	35.0	4.9	*	.0		48.3	10.6	47.9	47.9	47.1	49.9
S	1.0	2.1	.4	.0	.0		3.6	10.0	3.5	3.9	3.1	3.7
SW	.2	.1	*	.0	.0		.4	6.5	.3	.4	.4	.4
W	.2	.1	*	.0	.0		.3	6.6	.1	.2	.4	.4
NW	.3	.4	.0	.0	.0		.7	7.2	.6	.7	.6	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.2	1.4	1.4	1.5
TOT OBS	1956	6008	701	6	0	8671		10.0	1619	2509	1988	2555
TOT PCT	22.6	69.3	8.1	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1855-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	4.0	59.4	34.3	1.2	.0	.0	9.9	100.0	1619
06&09	1.4	5.7	57.1	34.5	1.3	.0	.0	9.7	100.0	2509
12&15	1.4	4.3	51.0	41.9	1.4	.1	.0	10.4	100.0	1988
18&21	1.5	4.7	53.9	39.5	.5	.0	.0	10.0	100.0	2555
TOT	121	410	4785	3262	92	1	0	10.0		8671
PCT	1.4	4.7	55.2	37.6	1.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.3	.3	.3		4.7
NE	3.4	2.8	2.9	.9		3.8
E	17.1	14.9	10.8	2.8		3.4
SE	15.5	12.5	9.2	2.0		3.4
S	.5	.7	.6	.4		4.5
SW	.1	*	*	*		4.4
W	.0	.0	.1	*		6.3
NW	*	.1	.2	.1		5.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.4	.2		4.5
TOT OBS	1166	992	767	213	3138	3.5
TOT PCT	37.2	31.6	24.4	6.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	.8	
NE	.1	*	*	.9	.6	.2	.1	.1	.0	*	8.0	
E	.1	.0	.2	1.7	2.5	1.2	.4	.1	*	.1	39.3	
SE	.1	*	.2	1.0	2.7	1.4	.2	*	*	.0	33.6	
S	*	*	*	.1	.3	*	*	.0	.0	.0	1.6	
SW	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	*	*	.0	.0	.0	*	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	*	.1	*	.0	.0	.1	.8	
TOT OBS	7	2	19	125	200	94	25	8	2	5	2651	3138
TOT PCT	.2	.1	.6	4.0	6.4	3.0	.8	.3	.1	.2	84.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	3.8	4.2	4.2	4.2	4.2	4.2	4.3	4.3
* OR >1000	9.1	10.4	10.6	10.6	10.6	10.6	10.6	10.6
* OR >600	12.2	14.2	14.5	14.5	14.6	14.6	14.6	14.6
* OR >300	12.6	14.7	15.1	15.1	15.2	15.2	15.2	15.2
* OR >150	12.6	14.7	15.1	15.2	15.3	15.3	15.3	15.3
* OR > 0	12.7	14.9	15.3	15.3	15.5	15.5	15.5	15.5
TOTAL	400	468	481	482	487	487	488	488

TOTAL NUMBER OF OBS: 3148

PCT FREQ NH <5/8: 84.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.1	20.0	26.6	20.6	11.0	5.1	4.3	2.7	3.4	.1	3311

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1855-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
	PCP	*	.0	.1	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
	PCP	.0	.1	*	*	*	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.2	
	PCP	*	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	NO PCP	*	.2	.4	.3	.1	.0	*	.1	.0	.0	1.1	
	TOT %	*	.2	.5	.3	.1	.0	*	.1	.0	.0	1.2	
	PCP	.1	.2	.5	.4	.1	.0	.0	.1	.0	.0	1.5	
5<10	NO PCP	.2	1.0	3.0	3.0	.1	.1	.1	.1	.0	.1	7.7	
	TOT %	.3	1.2	3.5	3.4	.2	.1	.1	.2	.0	.1	9.2	
	PCP	.0	.2	.5	.5	.1	.1	.0	.0	.0	.0	1.3	
10+	NO PCP	.9	6.0	39.4	35.9	2.3	.3	.1	.2	.0	.9	87.9	
	TOT %	.9	8.1	39.9	36.4	2.4	.3	.1	.2	.0	.9	89.2	
	TOT OBS												3889
	TOT PCT	1.3	9.6	44.0	40.3	2.8	.4	.2	.5	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	22+	*	*	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	.4	
	0-3	.0	*	*	*	*	.0	*	*	.0	*	.1	
2<5	4-10	*	.1	.3	.2	*	.0	*	.1	.0		.8	
	11-21	*	*	.2	.2	*	.0	*	.0	.0		.4	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	.5	.4	.1	.0	*	.1	.0	*	1.4	
	0-3	*	.1	.1	.2	*	*	.0	.0	.0	.1	.6	
5<10	4-10	.2	.6	1.7	2.0	.2	*	*	.1	.0		4.8	
	11-21	.1	.3	1.2	1.6	.1	.0	*	*	.0		3.3	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.9	3.1	3.8	.3	.1	.1	.2	.0	.1	8.8	
	0-3	.3	.7	1.5	1.1	.1	.1	*	*	.0	.9	4.6	
10+	4-10	.5	4.6	21.6	23.2	1.7	.2	.1	.2	.0		52.1	
	11-21	.1	1.7	12.8	16.5	.9	*	*	.1	.0		32.1	
	22+	*	*	.1	.2	*	.0	.0	.0	.0		.4	
	TOT %	.9	7.1	36.0	41.1	2.7	.3	.1	.3	.0	.9	89.2	
	TOT OBS												5992
	TOT PCT	1.2	8.3	39.9	45.4	3.0	.4	.2	.5	.0	1.0	100.0	

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1855-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.1	.7	4.0	5.4	3.3	.7	.3	.1	.1	15.0	85.0	747
06&09	.1	.0	.4	3.4	6.9	1.9	1.2	.1	.0	.0	14.0	86.0	773
12&15	.2	.0	.7	4.1	6.5	2.6	.6	.3	.1	.1	15.2	84.8	887
18&21	.2	.1	.6	4.0	5.8	3.6	.7	.2	.0	.3	15.6	84.4	877
TOT	7	2	19	127	202	95	25	8	2	5	492	2792	3284
PCT	.2	.1	.6	3.9	6.2	2.9	.8	.2	.1	.2	15.0	85.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.3	1.3	8.3	89.7	1215
06&09	.1	.0	.4	1.6	10.3	87.6	1657
12&15	.0	.2	.1	.6	8.0	91.1	1453
18&21	.0	.3	.5	1.8	8.8	88.6	1707
TOT	2	12	21	81	538	5378	6032
PCT	*	.2	.3	1.3	8.9	89.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.1	6.0	10.0	84.0	718
06&09	.1	.7	5.1	10.0	85.0	732
12&15	.2	1.0	5.3	10.5	84.2	860
18&21	.2	1.0	5.5	10.9	83.7	838
TOT	6	30	172	326	2650	3148
PCT	.2	1.0	5.5	10.4	84.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.0	*	.0	.0	3	.1
90/94	.0	.0	.0	.3	.7	.1	.1	*	43	1.3
85/89	.0	.0	.0	.2	2.4	4.0	1.0	.3	256	7.9
80/84	.0	.0	.0	.0	3.3	38.7	29.1	6.7	2522	77.9
75/79	.0	.0	.0	.0	*	2.2	6.9	3.4	406	12.5
70/74	.0	.0	.0	.0	.0	.0	.1	.2	8	.2
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	1	18	211	1456	1207	346	3239	100.0
PCT	.0	.0	*	.6	6.5	45.0	37.3	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
	.0	.1	.8	.4	.1	.0	.0	*	.0	.0
	.1	.5	3.5	3.3	.3	.0	*	.0	.0	.1
	.7	7.0	34.0	32.7	2.1	.2	.1	.1	.0	.9
	.4	1.4	5.6	4.1	.5	.1	.1	.2	.0	.2
	*	.1	.1	*	*	.0	.0	.0	.0	.0
	.0	*	*	.0	.0	.0	.0	.0	.0	.0
	1.3	9.1	44.1	40.6	2.9	.3	.1	.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	82	80	78	75	70	80.4	1620
06&09	88	84	83	80	77	76	73	80.2	2498
12&15	95	90	87	82	79	77	71	82.4	1953
18&21	95	91	87	82	79	76	68	82.0	2511
TOT	95	89	85	81	78	76	68	81.3	8582

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.6	40.5	47.2	10.8	82	697
06&09	.0	.0	1.2	33.3	50.9	14.7	83	845
12&15	.0	.2	9.0	53.6	28.3	8.9	78	866
18&21	.0	2.0	13.0	50.7	25.3	9.0	77	867
TOT	0	19	212	1467	1223	354	80	3275

FEBRUARY

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1855-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	*	.3	12	.0	.4
9/10	.0	.0	.0	.0	*	.0	.3	.1	15	.0	.4
7/8	.0	.0	.0	*	.1	.4	.8	.0	44	.0	1.3
6	.0	.0	.0	.0	.1	.6	.3	.0	36	.0	1.1
5	.0	.0	.0	.1	.2	1.1	.1	.0	53	.0	1.5
4	.0	.0	.0	.1	.8	1.4	.1	.0	84	.0	2.5
3	.0	.0	.0	*	1.5	1.6	.1	.0	109	.0	3.2
2	.0	.0	.0	.1	5.6	1.0	.0	.0	228	.0	6.7
1	.0	.0	.0	.5	9.8	.7	.0	.0	377	.0	11.0
0	.0	.0	*	3.3	16.9	.4	.0	.0	710	.0	20.7
-1	.0	.0	.0	7.8	12.8	.1	.0	.0	709	.1	20.6
-2	.0	*	.1	7.9	6.2	*	.0	.0	487	.0	14.2
-3	.0	.0	*	5.5	2.0	*	.0	.0	261	.0	7.6
-4	.0	*	.1	2.9	1.1	.0	.0	.0	143	.0	4.2
-5	.0	.0	.1	1.5	.6	.0	.0	.0	74	.0	2.2
-6	.0	.0	.4	.7	.2	.0	.0	.0	41	.0	1.2
-7/-8	.0	*	.3	.6	.1	.0	.0	.0	31	.0	.9
-9/-10	.0	.0	.1	.0	*	.0	.0	.0	6	.0	.2
-11/-13	.0	.1	*	*	.0	.0	.0	.0	4	.0	.1
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	6	39	1066	1987	254	58	15	3426	2	3424
PCT	*	.2	1.1	31.1	58.0	7.4	1.7	.4	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.1	.2	.2	.0	.0	.0	.4
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.4	.1	.0	.0	1.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.3	3.9	.9	.0	.0	.0	5.1
3-4	.0	2.1	1.6	.0	.0	.0	3.7
5-6	.0	.7	.9	.0	.0	.0	1.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.6	3.7	.0	.0	.0	11.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	.0	.0	.0	.0	1.8
1-2	.5	12.9	3.5	.0	.0	.0	16.9
3-4	.0	9.6	8.8	.1	.0	.0	18.5
5-6	.0	2.0	4.5	.1	.0	.0	6.6
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.1	.5	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	26.3	18.4	.1	.0	.0	45.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	9.4	2.8	.0	.0	.0	12.3
3-4	.0	7.9	8.3	.1	.0	.0	16.3
5-6	.1	.9	5.1	.3	.0	.0	6.3
7	.0	*	.9	.0	.0	.0	1.0
8-9	.0	.1	.2	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	18.7	17.4	.4	.0	.0	36.8

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0005 NATAL 4.4S 33.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.7	.2	.0	.0	.0	1.0	.0	.1	*	.0	.0	.0	.1
3-4	.0	.2	.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.2	.9	.0	.0	.0	2.2	.0	.2	*	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.2	*	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.3	*	.0	.0	.0	.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	3.7	.0	.0	.0	.0	6.7	
1-2	1.1	27.4	7.6	.0	.0	.0	36.2	
3-4	.0	19.7	19.2	.2	.0	.0	39.1	
5-6	.1	3.6	10.5	.5	.0	.0	14.7	
7	.0	.1	2.3	.0	.0	.0	2.4	
8-9	.0	.2	.8	.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1330
TOT PCT	4.2	54.7	40.5	.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	13.0	20.5	8.6	1.7	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1218	3
6-7	.1	2.7	10.9	11.5	2.9	1.1	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	783	4
8-9	*	.4	2.7	3.3	2.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	5
10-11	.0	.9	.9	.7	.8	.1	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	5
12-13	.0	.0	.8	.6	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	5
>13	.0	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
INDET	1.1	1.7	3.6	1.4	.8	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	3
TOTAL	83	493	1043	699	234	66	16	4	7	0	0	0	0	0	0	0	0	0	0	2645	4
PCT	3.1	18.6	39.4	26.4	8.8	2.5	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1855-1974

AREA 0005 NATAL
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.9	4.8	2.0	.0	.0	.0	.0	12.7	6.8	1.1	.0	.0	.0		.0	80.5
NE	3.0	3.0	1.1	.0	.0	.0	.0	7.0	6.9	1.2	.0	.0	.0		.0	84.9
E	1.2	3.8	.5	.0	.0	.0	.1	5.5	4.7	1.0	.1	.0	.2		.0	88.5
SE	1.9	3.4	.5	.0	.0	.0	.1	5.8	4.6	.7	.1	.0	.2		.0	88.7
S	2.4	4.6	1.4	.0	.0	.0	.0	7.9	4.7	.8	.0	.0	.0		.0	86.6
SW	11.4	.0	1.3	.0	.0	.0	.0	12.7	6.3	6.3	.0	.0	.0		.0	74.7
W	11.0	.0	.0	.0	.0	.0	.0	11.0	.0	.0	8.0	.0	.0		.0	81.0
NW	3.4	3.4	4.3	.0	.0	.0	.0	11.2	4.3	.0	.0	.0	.0		.0	84.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.3	.0	1.3	.0	.0	.0	.0	2.6	9.2	2.6	.0	.0	1.3		.0	84.2
TOT PCT	1.9	3.5	.6	.0	.0	.0	*	6.1	5.0	.9	.1	.0	.2		.0	87.8
TOT OBS:	4257															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	3.2	.7	.0	.0	.0	.1	5.5	4.2	2.9	.2	.0	.1		.0	87.5
06&09	2.2	3.1	1.0	.0	.0	.0	.1	6.4	4.9	.9	.1	.0	.0		.0	87.8
12&15	1.9	3.5	.4	.0	.0	.0	.0	5.9	4.9	.0	.1	.0	.4		.0	88.8
18&21	2.2	4.3	.4	.0	.0	.0	.1	6.9	6.1	.3	.2	.0	.2		.0	86.5
TOT PCT	2.0	3.6	.6	.0	.0	.0	.1	6.2	5.0	.9	.1	.0	.2		.0	87.6
TOT OBS:	4329															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	.9	.2	*	.0	.0		1.5	6.7	2.1	1.0	1.2	.9	2.2	.9	2.0	1.2
NE	.8	5.6	1.7	*	.0	.0		8.1	8.0	10.4	7.2	9.3	5.8	11.2	7.1	7.1	5.8
E	1.4	20.5	11.6	.2	.0	.0		33.8	9.7	39.8	29.5	36.7	29.7	37.6	30.9	33.3	29.2
SE	1.6	25.5	20.8	.6	.0	.0		48.5	10.5	39.8	54.1	45.6	55.2	40.7	53.1	49.2	55.2
S	.5	2.8	1.2	.1	.0	.0		4.6	8.8	4.1	5.6	3.9	5.6	4.5	4.4	4.3	5.4
SW	.1	.4	.1	*	.0	.0		.6	6.3	.3	.7	.5	1.0	.4	.8	.7	1.0
W	.1	.3	.1	.0	.0	.0		.4	6.7	.5	.4	.4	.2	.8	.2	.7	.1
NW	.1	.3	.1	.0	.0	.0		.6	6.8	.7	.3	.5	.2	.8	.4	.7	.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.4	1.2	1.8	1.4	1.8	2.1	1.9	1.4
TOT OBS	653	5332	3378	86	0	0	9449		9.7	1048	813	1760	904	1109	1078	1830	907
TOT PCT	6.9	56.4	35.7	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	.6	*	.0	.0		1.5	6.7	1.6	1.1	1.6	1.7
NE	3.4	4.5	.2	.0	.0		8.1	8.0	9.0	8.1	9.2	6.7
E	8.7	23.0	2.2	*	.0		33.8	9.7	35.3	34.3	34.3	32.0
SE	8.5	35.5	4.4	.1	.0		48.5	10.5	46.1	48.9	46.8	51.2
S	1.7	2.6	.3	.0	.0		4.6	8.8	4.8	4.5	4.5	4.7
SW	.4	.2	*	.0	.0		.6	6.3	.4	.7	.6	.8
W	.2	.2	.0	.0	.0		.4	6.7	.4	.3	.5	.5
NW	.3	.3	.0	.0	.0		.6	6.8	.5	.4	.6	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.9	1.7	2.0	1.8
TOT OBS	2444	6314	682	9	0	9449		9.7	1861	2664	2187	2737
TOT PCT	25.9	66.8	7.2	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1855-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	4.3	59.3	33.5	1.0	.0	.0	9.6	100.0	1861
06&09	1.7	5.6	57.2	34.5	1.0	.0	.0	9.6	100.0	2664
12&15	2.0	4.7	53.6	38.9	.9	.0	.0	9.9	100.0	2187
18&21	1.8	5.5	56.0	36.0	.7	.0	.0	9.6	100.0	2737
TOT	171	482	5332	3378	86	0	0	9.7		9449
PCT	1.8	5.1	56.4	35.7	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	.8	.7		6.0
NE	2.9	3.4	3.9	1.3		4.3
E	10.7	12.7	11.9	4.2		4.1
SE	10.4	12.1	13.2	3.5		4.1
S	.7	1.0	1.7	.8		5.0
SW	*	.1	.1	.1		5.3
W	*	.1	.3	.1		5.9
NW	.1	.2	.3	.2		5.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.6	.6	.3		4.6
TOT OBS	868	1040	1125	383	3416	4.2
TOT PCT	25.4	30.4	32.9	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.1	.4	.2	.1	.1	.0	*	*	1.0	
NE	*	*	.2	1.0	1.1	.4	.1	*	*	.0	8.4	
E	.2	.1	.4	2.4	3.9	1.3	.7	.2	.1	.0	30.5	
SE	.1	.1	.4	2.0	3.4	1.5	.7	.2	.1	.1	30.7	
S	*	.0	*	.4	.7	.1	.1	.0	.0	.0	2.9	
SW	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
W	.0	.0	.0	.1	*	.0	.0	.0	.0	*	.4	
NW	.0	.0	*	.2	.1	*	.0	.0	.0	*	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.2	.1	.0	.0	.0	1.3	
TOT OBS	11	7	38	234	332	121	59	16	9	4	2585	3416
TOT PCT	.3	.2	1.1	6.9	9.7	3.5	1.7	.5	.3	.1	75.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	4.8	6.0	6.1	6.1	6.1	6.1	6.1	6.1
= OR >1000	12.8	15.4	15.7	15.8	15.8	15.8	15.8	15.8
= OR >600	18.2	22.1	22.5	22.7	22.7	22.7	22.7	22.7
= OR >300	18.9	23.1	23.5	23.8	23.8	23.9	23.9	23.9
= OR >150	19.0	23.3	23.7	24.0	24.0	24.1	24.1	24.1
= OR > 0	19.1	23.5	24.0	24.3	24.3	24.4	24.4	24.4
TOTAL	662	813	832	840	842	845	845	845

TOTAL NUMBER OF OBS: 3460

PCT FREQ NH <5/8: 75.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.2	14.2	22.5	21.5	12.9	6.8	7.2	4.4	6.1	.2	3618

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1855-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	*	.2	.1	.0	.0	*	.0	.0	.0	.4	
	NO PCP	*	.1	.1	.3	.1	*	*	.1	.0	*	.7	
	TOT %	*	.1	.3	.4	.1	*	.1	.1	.0	*	1.0	
5<10	PCP	.2	.2	.9	.8	.1	.0	.0	*	.0	.0	2.3	
	NO PCP	.3	.8	3.8	3.9	.4	.1	.1	*	.0	.1	9.6	
	TOT %	.5	1.0	4.7	4.7	.6	.1	.1	.1	.0	.1	11.8	
10+	PCP	*	.4	1.0	1.4	.2	.1	*	*	.0	*	3.1	
	NO PCP	1.5	9.1	33.1	33.7	3.5	.2	.4	.5	.0	1.7	83.7	
	TOT %	1.5	9.4	34.1	35.1	3.7	.3	.4	.5	.0	1.7	86.8	
	TOT OBS												4239
	TOT PCT	2.1	10.6	39.2	40.3	4.4	.5	.6	.7	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	*	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.0	.1	.1	*	.0	*	.0	*	.0		.2	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	.0	*	.0	*	.0	*	.3	
2<5	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.2	.2	*	*	*	*	.0		.7	
	11-21	.0	*	.2	.2	*	.0	*	*	.0		.5	
	22+	*	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.1	.4	.5	.1	*	*	*	.0	.1	1.4	
5<10	0-3	.1	*	.2	.1	*	.0	*	*	.0	.1	.5	
	4-10	.2	.5	2.2	2.2	.2	.1	.1	.1	.0		5.6	
	11-21	.1	.2	1.5	2.1	.3	*	*	.0	.0		4.3	
	22+	.0	.0	.1	.1	*	*	.0	.0	.0		.2	
	TOT %	.3	.8	4.0	4.5	.6	.1	.1	.1	.0	.1	10.6	
10+	0-3	.3	.7	1.3	1.4	.4	.1	.1	.1	.0	1.8	6.2	
	4-10	.8	5.3	19.6	22.5	2.3	.2	.3	.3	.0		51.1	
	11-21	.2	1.8	10.8	16.3	.7	*	*	.1	.0		29.9	
	22+	*	*	.1	.1	*	.0	.0	.0	.0		.3	
	TOT %	1.3	7.8	31.7	40.3	3.4	.3	.4	.5	.0	1.8	87.5	
	TOT OBS												6614
	TOT PCT	1.7	8.8	36.3	45.5	4.0	.5	.5	.7	.0	2.0	100.0	

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1855-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.1	1.2	5.4	8.6	3.3	1.5	.1	.5	.0	20.8	79.2	857
06&09	.4	.1	.7	7.2	10.1	3.2	1.6	.4	.2	.0	23.9	76.1	850
12&15	.4	.0	.8	6.8	9.6	4.2	1.9	.6	.0	.3	24.8	75.2	944
18&21	.4	.5	1.6	7.7	9.5	3.1	1.6	.6	.3	.1	25.6	74.4	924
TOT	12	7	39	242	339	124	60	16	9	4	852	2723	3575
PCT	.3	.2	1.1	6.8	9.5	3.5	1.7	.4	.3	.1	23.8	76.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.5	1.7	12.1	85.6	1435
06&09	.1	.0	.3	1.6	12.5	85.5	1786
12&15	.0	.1	.2	1.3	7.5	90.9	1601
18&21	.4	.2	.4	1.1	10.3	87.6	1867
TOT	9	5	23	96	710	5846	6689
PCT	.1	.1	.3	1.4	10.6	87.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.6	7.9	14.0	78.1	836
06&09	.4	1.3	9.0	16.0	74.9	818
12&15	.4	1.3	9.0	16.5	74.4	908
18&21	.4	2.7	10.8	15.1	74.1	898
TOT	12	60	319	534	2607	3460
PCT	.3	1.7	9.2	15.4	75.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.0	.0	.0	.0	1	*
90/94	.0	.0	.0	.2	.5	.1	.1	*	34	1.0
85/89	.0	.0	.0	.1	2.1	5.4	1.7	.6	353	9.9
80/84	.0	.0	.0	.1	2.4	32.7	34.5	7.7	2761	77.3
75/79	.0	.0	.0	.0	.0	.6	6.4	4.4	409	11.4
70/74	.0	.0	.0	.0	.0	*	*	.4	16	.4
TOTAL	0	0	0	12	179	1388	1528	467	3574	100.0
PCT	.0	.0	.0	.3	5.0	38.8	42.8	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	.0	.0	.0	.0	.0	.0
.0	.1	.5	.3	.1	.0	.0	.0	.0	*
.2	1.0	3.8	4.2	.4	*	.1	*	.0	.1
1.4	7.5	30.6	32.5	3.0	.3	.2	.4	.0	1.3
.5	1.6	4.0	3.7	.7	.1	.2	.2	.0	.4
.1	.1	*	.1	*	.0	.0	*	.0	.0
2.1	10.4	39.0	40.9	4.2	.4	.5	.7	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	83	81	78	76	72	80.9	1865
06&09	91	85	83	81	78	75	64	80.7	2655
12&15	95	89	87	83	79	76	73	82.8	2158
18&21	96	90	87	82	79	76	73	82.3	2704
TOT	96	88	86	82	78	76	64	81.7	9382

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.7	34.9	50.3	13.2	82	835
06&09	.0	.0	1.1	30.8	52.1	16.0	83	921
12&15	.0	.7	7.7	45.6	34.3	11.6	79	945
18&21	.0	.5	9.1	43.4	35.4	11.6	79	938
TOT	0	12	182	1413	1556	476	81	3639

PERIOD: (PRIMARY) 1922-1974
(OVER-ALL) 1855-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	*	.1	.1	6	.0	.2
9/10	.0	.0	.0	.0	.0	*	.0	.2	.1	13	.0	.3
7/8	.0	.0	.0	.0	.0	.1	.1	.4	.0	22	.0	.6
6	.0	.0	.0	.0	*	*	.3	.2	.0	21	.0	.6
5	.0	.0	.0	.0	.1	.2	1.1	.2	.0	56	.0	1.5
4	.0	.0	.0	.0	.1	.4	1.8	.1	.0	88	.0	2.3
3	.0	.0	.0	.0	.1	.9	1.8	.1	.0	110	.0	2.9
2	.0	.0	.0	.0	.1	3.4	1.8	*	.0	203	.0	5.3
1	.0	.0	.0	.0	.2	8.3	1.1	.0	.0	363	.0	9.6
0	.0	.0	.0	*	1.2	17.5	.7	.0	.0	738	*	19.4
-1	.0	.0	.0	.0	3.3	15.9	.1	.0	.0	731	*	19.2
-2	.0	.0	.0	*	5.1	9.6	.0	.0	.0	559	.1	14.7
-3	.0	.0	.0	.0	5.6	4.6	.1	.0	.0	390	.0	10.3
-4	.0	.0	.0	.1	3.9	1.6	.0	.0	.0	208	.0	5.5
-5	.0	.0	.0	*	2.6	.4	.0	.0	.0	118	.0	3.1
-6	.0	.0	.0	.3	1.4	.2	.0	.0	.0	73	.0	1.9
-7/-8	.0	.0	.0	.8	.9	.1	.0	.0	.0	67	.0	1.8
-9/-10	.0	.0	.0	.4	.1	.1	.0	.0	.0	23	.0	.6
-11/-13	*	.0	.0	.0	.1	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		1		936		339		9		4	3791
		0		61		2402		46		3795		
PCT	*	.0	*	1.6	24.7	63.3	8.9	1.2	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.1	.0	.0	.0	.8
1-2	.1	.8	.2	.0	.0	.0	1.1
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.7	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	*	.0	.0	.0	1.6
1-2	.3	5.1	.3	.0	.0	.0	5.8
3-4	.1	2.2	1.2	.1	.0	.0	3.6
5-6	.0	.4	.9	.0	.0	.0	1.3
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.1	2.6	.1	.0	.0	12.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	.0	.0	.0	.0	1.8
1-2	.5	9.5	2.2	.0	.0	.0	12.3
3-4	.4	8.6	5.8	.1	.0	.0	14.9
5-6	.0	1.1	4.4	.1	.0	.0	5.6
7	.0	.1	.5	.1	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	21.0	12.9	.2	.0	.0	35.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.5	.2	.0	.0	.0	2.9
1-2	.8	11.9	2.1	.0	.0	.0	14.9
3-4	.1	6.4	7.6	.1	.0	.0	14.1
5-6	.0	.9	3.7	.3	.0	.0	4.9
7	.0	*	.8	.2	.0	.0	1.0
8-9	.0	.2	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	22.0	14.5	.6	.0	.0	38.2

PERIOD: (OVER-ALL) 1963-1974

MARCH

TABLE 18 (CONT)

AREA 0005 NATAL
4.4S 33.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.2	2.3	.3	.0	.0	.0	2.8
3-4	.0	.9	.8	.0	.0	.0	1.7
5-6	.0	.3	.3	.1	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	1.4	.1	.0	.0	6.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.4	.0	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	.1	.6	.0	.0	.0	.0	.7
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.0	.0	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	*	.0	.0	.0	.0	.1	
1-2	*	.4	.1	.0	.0	.0	.5	
3-4	.1	.2	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.6	.1	.0	.0	.0	.9	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	7.0	.2	.0	.0	.0	12.8	
1-2	2.4	30.7	5.1	.0	.0	.0	38.2	
3-4	.6	18.1	15.4	.2	.0	.0	34.3	
5-6	.0	2.8	9.3	.4	.0	.0	12.5	
7	.0	.2	1.4	.2	.0	.0	1.8	
8-9	.0	.2	.2	.0	.0	.0	.4	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.6	59.0	31.6	.9	.0	.0	100.0	1309

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	15.6	20.5	6.4	1.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1343	3
6-7	.1	1.7	12.4	11.5	3.3	.8	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	880	4
8-9	.1	.7	1.9	3.6	2.1	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	5
10-11	.0	.2	.8	.8	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	5
12-13	.0	.0	.8	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	5
>13	.0	.0	.0	.3	.1	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
INDET	2.1	2.5	3.0	1.3	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	3
TOTAL	120	606	1152	714	242	55	23	9	1	0	0	0	0	0	0	0	0	0	0	2922	4
PCT	4.1	20.7	39.4	24.4	8.3	1.9	.8	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1859-1973

AREA 0005 NATAL
4.4S 33.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.0	2.4	2.2	.0	.0	.0	.0	7.5	5.4	2.2	.0	.0	.0	.0		84.9
NE	5.6	3.3	.4	.0	.0	.0	.0	9.3	4.9	2.4	.1	.0	.0	.0		83.4
E	3.2	3.5	1.3	.0	.0	.0	.0	8.0	4.9	1.0	.6	.0	.1	.0		85.5
SE	2.7	3.8	.7	.0	.0	.0	.0	7.2	3.5	.6	.1	.0	.1	.1		88.5
S	5.1	5.4	.9	.0	.0	.0	.0	11.4	4.3	.5	.0	.0	.0	.0		83.8
SW	9.5	9.5	2.2	.0	.0	.0	.0	21.2	5.2	1.7	.0	.0	.0	.0		71.9
W	6.8	12.8	3.0	.0	.0	.0	.0	22.6	6.0	.0	3.0	.0	.0	.0		68.4
NW	6.2	7.9	2.2	.0	.0	.0	.0	16.3	5.1	2.2	.0	.0	.0	.0		76.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.1	4.1	2.5	.0	.0	.0	.0	10.7	7.4	2.5	.0	.0	.8	.0		78.7
TOT PCT	3.5	4.0	1.1	.0	.0	.0	.0	8.5	4.3	1.0	.3	.0	.1	*		85.9
TOT OBS:	3884															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.8	4.3	2.0	.0	.0	.0	.0	10.1	5.0	3.1	.0	.0	.1	.0		81.7
06&09	4.4	4.4	1.0	.0	.0	.0	.0	9.8	5.0	1.1	.5	.0	.2	.1		83.4
12&15	2.8	3.9	.7	.0	.0	.0	.0	7.2	3.5	.0	.3	.0	.0	.0		89.0
18&21	3.1	4.0	.6	.0	.0	.0	.0	7.7	4.0	.1	.3	.0	.0	.0		87.9
TOT PCT	3.5	4.1	1.0	.0	.0	.0	.0	8.6	4.3	1.0	.3	.0	.1	*		85.6
TOT OBS:	3991															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.2	.2	*	.0	.0		1.8	6.4	2.3	.7	1.8	1.3	2.4	1.2	2.6	1.6
NE	1.0	4.4	.8	*	.0	.0		6.2	7.3	7.9	6.1	6.4	4.8	8.0	4.8	6.4	4.7
E	2.0	17.2	8.6	.2	*	.0		28.0	9.3	31.1	26.7	29.7	25.3	31.8	26.3	27.2	25.3
SE	2.3	27.1	20.2	.9	*	.0		50.4	10.4	45.4	54.1	48.6	56.1	43.8	54.2	49.2	55.2
S	.7	4.2	2.3	.1	.0	.0		7.3	9.3	6.4	7.1	6.2	7.5	8.6	7.8	7.5	7.4
SW	.3	1.0	.1	.0	.0	.0		1.4	6.6	1.3	1.5	1.4	1.5	1.1	1.3	1.6	1.6
W	.3	.7	.1	.0	.0	.0		1.0	5.9	.8	.8	1.0	1.3	.6	1.5	1.2	1.0
NW	.2	.6	.2	*	.0	.0		.9	7.5	1.0	.6	1.2	.4	1.0	1.0	1.3	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	3.8	2.3	3.8	1.7	2.8	1.9	3.1	2.6
TOT OBS	887	5036	2902	111	1	0	8937		9.3	916	810	1670	905	973	1024	1766	873
TOT PCT	9.9	56.4	32.5	1.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	.7	*	.0	.0		1.8	6.4	1.6	1.6	1.8	2.2
NE	3.0	3.0	.1	*	.0		6.2	7.3	7.1	5.8	6.3	5.8
E	8.3	17.9	1.8	*	.0		28.0	9.3	29.0	28.1	29.0	26.6
SE	11.3	33.5	5.5	.1	.0		50.4	10.4	49.5	51.3	49.1	51.2
S	2.6	4.0	.7	.0	.0		7.3	9.3	6.7	6.7	8.2	7.5
SW	.8	.6	*	.0	.0		1.4	6.6	1.4	1.4	1.2	1.6
W	.7	.3	*	.0	.0		1.0	5.9	.8	1.1	1.1	1.1
NW	.5	.4	*	.0	.0		.9	7.5	.8	.9	1.0	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	3.1	3.1	2.3	3.0
TOT OBS	2790	5397	737	13	0	8937		9.3	1726	2575	1997	2639
TOT PCT	31.2	60.4	8.2	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1859-1973

AREA 0005 NATAL
4.45 33.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.1	6.7	57.8	31.5	.9	.1	.0	9.2	100.0	1726
06&09	3.1	7.0	57.4	30.9	1.6	.0	.0	9.2	100.0	2575
12&15	2.3	7.4	53.2	35.7	1.5	.0	.0	9.7	100.0	1997
18&21	3.0	7.0	56.8	32.2	1.0	.0	.0	9.2	100.0	2639
TOT	257	630	5036	2902	111	1	0	9.3		8937
PCT	2.9	7.0	56.4	32.5	1.2	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.6	1.3	.3		4.9
NE	1.6	2.1	2.8	1.2		4.7
E	7.4	10.0	10.4	4.1		4.3
SE	10.8	13.6	14.1	5.0		4.3
S	1.4	2.0	2.6	1.5		4.9
SW	.1	.3	.6	.4		5.7
W	*	.2	.4	.3		6.1
NW	*	.2	.7	.3		6.1
VAR	.0	.0	.0	.0		.0
CALM	.9	1.0	.8	.6		4.2
TOT OBS	699	922	1037	422	3080	4.5
TOT PCT	22.7	29.9	33.7	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	*	*	.3	.5	.1	*	.0	.0	.0	1.7	
NE	.0	.0	.2	.6	.8	.4	.2	*	.0	*	5.4	
E	.1	.1	.4	2.0	3.2	1.8	.8	.1	*	*	23.4	
SE	.2	.2	.3	3.2	3.8	2.2	.9	.2	.1	*	32.6	
S	*	.0	.1	.6	1.0	.4	.2	.1	.0	.0	5.0	
SW	*	*	.0	.1	.2	.2	*	*	.0	.0	.7	
W	.0	*	.1	.1	.1	.1	.0	.0	.0	.0	.5	
NW	*	.0	*	.2	.3	*	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	*	*	.2	.2	.1	.1	.0	.0	*	2.7	
TOT OBS	10	12	34	220	313	165	68	15	3	3	2237	3080
TOT PCT	.3	.4	1.1	7.1	10.2	5.4	2.2	.5	.1	.1	72.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.6	.6	.7	.7	.7	.7	.7	.7
* OR >3500	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	6.4	7.6	8.0	8.1	8.2	8.2	8.2	8.2
* OR >1000	14.6	17.5	18.1	18.2	18.4	18.4	18.4	18.4
* OR >600	19.9	24.1	25.2	25.4	25.5	25.5	25.6	25.6
* OR >300	20.5	25.1	26.3	26.5	26.7	26.7	26.8	26.8
* OR >150	20.7	25.4	26.6	26.8	27.0	27.0	27.1	27.1
* OR > 0	20.8	25.6	26.9	27.1	27.3	27.3	27.4	27.4
TOTAL	655	808	847	855	860	860	864	864

TOTAL NUMBER OF OBS: 3151 PCT FREQ NH <5/8: 72.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.4	12.1	22.1	20.9	13.5	7.3	7.4	5.3	7.9	.2	3317

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1859-1973

AREA 0005 NATAL
4.45 33.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	*	.1	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	*	*	.1	.0	.0	.0	.0	.2	
	PCP	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	PCP	*	.1	.4	.4	.1	*	*	*	.0	.0	1.2	
2<5	NO PCP	*	*	.7	.3	.1	.0	*	.1	.0	.0	1.3	
	TOT %	*	.1	1.2	.7	.3	*	*	.1	.0	.0	2.5	
	PCP	.1	.3	1.1	1.3	.3	.1	.1	.1	.0	.2	3.6	
5<10	NO PCP	.2	.6	3.4	4.8	.9	.2	.1	.2	.0	.3	10.8	
	TOT %	.3	1.0	4.5	6.1	1.3	.3	.2	.3	.0	.4	14.4	
	PCP	.1	.2	.9	1.4	.4	.1	.1	.1	.0	.2	3.3	
10+	NO PCP	2.0	5.9	24.7	36.3	5.7	.9	.5	.7	.0	2.5	79.3	
	TOT %	2.0	6.0	25.6	37.7	6.0	1.1	.6	.8	.0	2.7	82.5	
	TOT OBS												3876
	TOT PCT	2.4	7.3	31.4	44.7	7.6	1.5	.9	1.1	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
<1/2	4-10	.0	*	*	.1	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.1	*	*	.0	.0	.0	.0	.2	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	*	*	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.1	.0	.0	.0	.0	.0		.1	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	*	.1	.1	*	.0	*	*	.0	*	.2	
2<5	4-10	*	.1	.6	.6	.1	.1	.1	*	.0		1.7	
	11-21	*	*	.3	.4	.1	*	.0	*	.0		.9	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	.2	1.0	1.1	.2	.1	.1	.1	.0	*	2.8	
	0-3	*	.1	.3	.3	.1	*	*	*	.0	.4	1.3	
5<10	4-10	.2	.6	2.4	3.1	.7	.2	.1	.1	.0		7.5	
	11-21	.1	.2	1.4	2.3	.2	*	*	*	.0		4.3	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.9	4.1	5.8	1.0	.3	.2	.2	.0	.4	13.1	
	0-3	.4	.8	1.7	1.9	.5	.2	.2	.2	.0	2.6	8.4	
10+	4-10	1.2	4.0	16.0	22.7	3.2	.8	.5	.5	.0		48.9	
	11-21	.1	.6	7.4	15.4	1.8	.1	.1	.1	.0		25.5	
	22+	.0	.0	*	.4	.1	.0	.0	*	.0		.5	
	TOT %	1.8	5.3	25.1	40.3	5.7	1.1	.7	.7	.0	2.6	83.3	
	TOT OBS												6185
	TOT PCT	2.1	6.6	30.4	47.5	7.0	1.5	1.0	1.0	.0	3.0	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1859-1973

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4.45 33.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.4	1.0	7.3	11.0	5.1	2.2	.4	.3	.4	28.7	71.3	767
06&09	.5	.4	1.4	7.8	10.1	5.2	2.2	.4	.0	.0	27.9	72.1	774
12&15	.1	.5	.7	7.2	9.3	5.4	1.6	.5	.1	.0	25.4	74.6	850
18&21	.0	.2	1.3	5.8	9.5	4.8	2.7	.7	.0	.0	24.9	75.1	863
TOT	10	12	36	227	323	166	71	16	3	3	867	2387	3254
PCT	.3	.4	1.1	7.0	9.9	5.1	2.2	.5	.1	.1	26.6	73.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.3	.3	3.8	15.0	80.1	1324
06&09	.3	.0	.5	2.7	14.9	81.6	1715
12&15	.1	.3	.4	2.4	9.3	87.5	1476
18&21	.1	.2	.4	2.5	13.4	83.3	1780
TOT	13	12	26	176	832	5236	6295
PCT	.2	.2	.4	2.8	13.2	83.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	2.8	12.4	18.6	69.0	743
06&09	.5	2.5	13.3	17.4	69.3	747
12&15	.1	1.4	9.6	16.7	73.6	831
18&21	.0	1.7	9.2	17.2	73.6	830
TOT	10	66	347	550	2254	3151
PCT	.3	2.1	11.0	17.5	71.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.5	.4	.1	.3	44	1.4
85/89	.0	.0	.0	*	2.1	5.9	1.5	.8	325	10.3
80/84	.0	.0	.0	.1	2.4	32.1	34.2	6.5	2365	75.2
75/79	.0	.0	.0	.0	.0	.7	6.3	5.8	401	12.8
70/74	.0	.0	.0	.0	.0	.0	.1	.2	8	.3
TOTAL	0	0	0	7	158	1230	1323	425	3143	100.0
PCT	.0	.0	.0	.2	5.0	39.1	42.1	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.4	.8	.1	.0	.0	.0	.0	.0
.3	.6	3.7	4.2	1.0	.1	.0	*	.0	.3
1.7	5.5	22.6	36.2	4.9	.9	.6	.8	.0	2.0
.4	1.1	3.9	4.4	1.2	.5	.3	.3	.0	.6
*	.0	*	.1	.0	*	.0	.0	.0	.1
2.5	7.4	30.6	45.7	7.2	1.6	.8	1.1	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	85	83	81	78	76	72	80.8	1741
06&09	91	86	83	81	77	75	72	80.6	2582
12&15	95	90	87	83	79	76	72	82.7	1961
18&21	94	90	86	82	78	75	73	82.0	2620
TOT	95	89	86	82	78	75	72	81.5	8904

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.3	32.7	50.5	14.5	82	739
06&09	.0	.0	1.3	29.6	52.5	16.5	83	828
12&15	.0	.2	7.2	47.6	33.2	11.8	79	823
18&21	.0	.6	8.7	45.0	33.8	12.0	79	853
TOT	0	7	161	1263	1369	443	81	3243

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1859-1973

AREA 0005 NATAL
4.4S 33.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	*	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	6	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.2	9	.0	.3
7/8	.0	.0	.0	.1	.1	.4	.0	22	.0	.6
6	.0	.0	.0	*	.2	.1	.0	12	*	.3
5	.0	.0	.0	.2	.5	.2	*	35	.0	1.0
4	.0	.0	.1	.4	1.7	.1	.0	77	.0	2.2
3	.0	.0	.1	.5	1.7	*	.0	79	.0	2.3
2	.0	.0	.1	3.3	2.3	*	.0	199	*	5.7
1	.0	.0	.1	6.7	1.9	.0	.0	300	*	8.6
0	.0	*	.7	14.2	.7	.0	.0	541	.1	15.5
-1	.0	.0	1.9	16.7	.4	.0	.0	661	*	19.0
-2	.0	.0	4.7	11.1	.1	.0	.0	553	.1	15.9
-3	.0	.0	5.9	5.4	.1	.0	.0	395	.0	11.4
-4	.0	.2	5.2	1.8	.0	.0	.0	252	.0	7.3
-5	.0	.2	2.9	.8	*	.0	.0	135	.0	3.9
-6	.0	.4	2.0	.3	.0	.0	.0	91	.0	2.6
-7/-8	*	.7	1.1	.3	.0	.0	.0	72	.0	2.1
-9/-10	*	.4	.1	.1	.0	.0	.0	23	.0	.7
-11/-13	*	.1	.0	.0	.0	.0	.0	6	.0	.2
TOTAL	3	71	860	2149	340	36	11	3470	9	3461
PCT	.1	2.0	24.8	61.9	9.8	1.0	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.1	.0	.0	.0	1.2
1-2	.2	1.4	.3	.0	.0	.0	1.9
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.2	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	.5	.0	.0	.0	3.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.0	.0	.0	.0	1.5
1-2	.5	2.0	.5	.0	.0	.0	3.0
3-4	.1	2.2	.5	.0	.0	.0	2.8
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.6	1.2	.0	.0	.0	7.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.0	.0	.0	.0	2.2
1-2	1.1	11.0	2.5	.0	.0	.0	14.5
3-4	.1	5.1	4.7	.0	.0	.0	9.9
5-6	.0	1.6	2.7	.0	.0	.0	4.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.1	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	19.4	10.5	.0	.0	.0	31.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.8	.0	.0	.0	.0	3.8
1-2	.6	11.5	3.3	.0	.0	.0	15.4
3-4	.1	5.5	7.6	.1	.0	.0	13.3
5-6	.0	1.2	3.5	.2	.0	.0	4.9
7	.0	.1	.9	.0	.0	.0	1.0
8-9	.0	*	.3	.0	.0	.0	.3
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.1	*	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	21.3	15.6	.2	.0	.0	38.8

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0005 NATAL 4.4S 33.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	2.4	.7	.0	.0	.0	3.2	.2	.2	.1	.0	.0	.0	.5
3-4	.1	1.7	.7	.0	.0	.0	2.4	*	.1	.0	.0	.0	.0	.1
5-6	.0	.3	.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.2	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.4	2.1	.0	.0	.0	8.0	.4	.4	.1	.0	.0	.0	.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.5	.1	.0	.0	.0	.8	
1-2	.0	.5	.1	.0	.0	.0	.6	.0	.7	.1	.0	.0	.0	.8	
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.4	.1	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	.2	.0	.0	.0	1.1	.2	1.7	.3	.1	.0	.0	2.3	94.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	7.7	.2	.0	.0	.0	17.5	
1-2	2.9	29.3	7.5	.0	.0	.0	39.7	
3-4	.4	15.4	13.5	.1	.0	.0	29.4	
5-6	.0	3.5	6.8	.2	.0	.0	10.5	
7	.0	.4	1.3	.0	.0	.0	1.7	
8-9	.0	.2	.5	.0	.0	.0	.6	
10-11	.0	.2	.0	.0	.0	.0	.2	
12	.0	.1	.2	.0	.0	.0	.3	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1273
TOT PCT	13.0	56.7	30.0	.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	12.7	20.0	7.8	1.4	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1182	3
6-7	*	2.8	10.6	10.4	3.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	742	4
8-9	.0	.7	2.2	3.3	2.1	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	5
10-11	.0	.6	1.0	.8	.5	.4	.2	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	5
12-13	.0	.0	.4	.3	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
>13	.0	.0	.0	.3	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
INDET	3.8	3.3	3.0	1.4	1.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	3
TOTAL	164	533	985	640	229	66	22	7	5	2	0	0	0	0	0	0	0	0	0	2653	4
PCT	6.2	20.1	37.1	24.1	8.6	2.5	.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1920-1974
(OVER-ALL) 1855-1974

AREA 0005 NATAL
4.5S 33.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	9.8	5.7	.0	.0	.0	.0	.0	15.6	11.5	2.5	.0	.0	.0	.0		70.5
NE	5.0	6.9	1.5	.0	.0	.0	.0	13.4	6.9	.2	.7	.0	.2	.0		78.6
E	2.6	4.0	1.0	.0	.0	.0	.0	7.4	6.1	.8	.5	.0	.2	.0		85.1
SE	4.1	4.7	.7	.0	.0	.0	.0	9.4	5.5	.5	.5	.0	.1	.0		84.1
S	5.1	5.6	1.8	.0	.0	.0	.0	12.1	6.6	.0	.2	.0	.9	.2		80.0
SW	12.9	3.8	1.9	.0	.0	.0	.0	18.7	1.9	1.9	.0	.0	1.0	.0		76.6
W	3.3	11.0	.0	.0	.0	.0	.0	14.3	16.5	.0	.0	.0	.0	.0		69.2
NW	5.3	10.6	.0	.0	.0	.0	.0	16.0	9.6	4.3	.0	.0	.0	.0		70.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.3	11.6	2.3	.0	.0	.0	.0	16.3	7.0	.0	.0	.0	2.3	.0		74.4
TOT PCT	4.0	4.8	1.0	.0	.0	.0	.0	9.6	5.9	.6	.4	.0	.3	*		83.2
TOT OBS:	3849															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	4.4	4.9	1.3	.0	.0	.0	.0	10.4	5.6	.8	.3	.0	.2	.0		82.7
06&09	5.2	5.4	1.3	.0	.0	.0	.0	11.8	7.1	1.1	.8	.0	.3	.1		78.9
12&15	3.5	4.0	.4	.0	.0	.0	.0	7.8	5.3	.2	.2	.0	.1	.0		86.4
18&21	3.4	5.2	.8	.0	.0	.0	.0	9.2	5.7	.2	.4	.0	.4	.0		84.1
TOT PCT	4.1	4.9	.9	.0	.0	.0	.0	9.8	5.9	.6	.4	.0	.3	*		83.0
TOT OBS:	3918															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.4	.1	*	.0	.0		.6	6.1	.7	.5	.5	.6	1.1	.3	.7	.4
NE	.3	2.1	.7	*	*	.0		3.1	8.5	4.2	2.4	3.8	3.0	3.2	3.2	2.7	2.3
E	.8	11.9	10.0	.5	.0	.0		23.2	10.8	29.2	21.2	25.1	20.9	24.4	21.9	22.4	19.0
SE	1.4	24.6	31.7	2.2	*	.0		59.9	11.9	53.7	62.7	58.6	61.3	56.4	62.2	60.5	65.1
S	.6	4.1	4.8	.5	.0	.0		9.9	11.7	8.5	10.1	8.4	10.5	11.4	9.6	10.4	11.0
SW	.3	.5	.3	*	.0	.0		1.1	7.9	.6	1.2	.8	1.8	1.5	1.0	1.1	1.1
W	*	.3	.1	.0	.0	.0		.4	8.7	.8	.1	.3	.2	.7	.2	.6	.1
NW	*	.3	*	*	.0	.0		.4	7.2	.8	.4	.3	.4	.4	.3	.4	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.4	1.4	2.1	1.3	.9	1.2	1.2	.9
TOT OBS	459	4071	4400	303	2	0	9235		11.3	972	843	1760	909	957	1048	1835	911
TOT PCT	5.0	44.1	47.6	3.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.2	*	.0	.0		.6	6.1	.6	.5	.7	.6
NE	1.2	1.7	.2	*	.0		3.1	8.5	3.4	3.5	3.2	2.5
E	4.5	15.7	3.0	*	.0		23.2	10.8	25.5	23.7	23.1	21.3
SE	8.2	40.6	11.0	.2	.0		59.9	11.9	57.9	59.5	59.4	62.0
S	1.9	6.0	1.9	.1	.0		9.9	11.7	9.2	9.1	10.5	10.6
SW	.5	.5	.1	.0	.0		1.1	7.9	.9	1.1	1.2	1.1
W	.1	.3	.0	.0	.0		.4	8.7	.5	.3	.4	.4
NW	.2	.2	*	.0	.0		.4	7.2	.6	.3	.4	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.4	1.8	1.1	1.1
TOT OBS	1695	6019	1493	28	0	9235		11.3	1815	2669	2005	2746
TOT PCT	18.4	65.2	16.2	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1920-1974
(OVER-ALL) 1855-1974

AREA 0005 NATAL
4.55 33.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	3.7	46.1	45.2	3.5	.0	.0	11.1	100.0	1815
06&09	1.8	4.2	46.6	44.2	3.2	*	.0	10.9	100.0	2669
12&15	1.1	3.3	40.0	52.2	3.4	*	.0	11.7	100.0	2005
18&21	1.1	3.2	43.3	49.3	3.1	.0	.0	11.4	100.0	2746
TOT	127	332	4071	4400	303	2	0	11.3		9235
PCT	1.4	3.6	44.1	47.6	3.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.4	.2		6.0
NE	.8	1.0	.9	.7		4.6
E	7.5	7.7	8.5	3.1		4.2
SE	14.5	15.5	18.2	6.7		4.3
S	1.9	2.8	3.6	2.2		4.9
SW	.2	.2	.3	.4		5.3
W	*	*	.3	.3		6.7
NW	*	.1	.3	.2		6.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.5	.2		4.7
TOT OBS	789	856	1026	434	3105	4.4
TOT PCT	25.4	27.6	33.0	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.0	*	.2	.1	.0	.0	.0	.0	.3	
NE	.1	.0	.2	.1	.5	.2	.0	.0	.0	*	2.4	
E	.1	.2	.5	1.3	3.4	1.3	.5	.1	.1	*	19.4	
SE	.3	.3	.6	4.1	5.2	3.0	1.5	.3	*	.1	39.5	
S	.2	.1	.2	1.1	1.6	.3	.2	.1	*	.0	6.6	
SW	*	.0	.1	.1	.3	.1	.1	.0	.0	.0	.5	
W	*	.0	*	.1	.2	*	.0	.1	.0	.0	.2	
NW	*	.1	.0	*	.2	*	*	.0	*	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.3	.1	*	.0	.0	.0	.0	.8	
TOT OBS	26	18	50	221	360	157	70	16	6	5	2176	3105
TOT PCT	.8	.6	1.6	7.1	11.6	5.1	2.3	.5	.2	.2	70.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >3000	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >1500	2.4	3.2	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	6.5	8.1	8.2	8.3	8.3	8.3	8.3	8.3
* OR >1000	15.6	19.3	19.8	19.9	19.9	19.9	19.9	20.0
* OR >600	20.5	25.9	27.0	27.1	27.1	27.1	27.2	27.2
* OR >300	21.4	27.4	28.5	28.7	28.7	28.8	28.8	28.9
* OR >150	21.7	27.9	29.1	29.3	29.3	29.4	29.4	29.5
* OR > 0	22.0	28.5	29.9	30.1	30.1	30.2	30.2	30.3
TOTAL	692	898	940	947	949	951	952	954

TOTAL NUMBER OF OBS: 3149 PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.0	11.8	21.2	18.7	13.6	7.4	7.2	6.7	8.8	.5	3294

PERIOD: (PRIMARY) 1920-1974
(OVER-ALL) 1855-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	*	.1	*	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	*	.0	*	*	.0	*	.0	.0	.1	
	TOT %	.0	.1	.1	.1	*	*	.0	*	.0	.0	.4	
	PCP	*	.1	.2	.4	.2	*	*	*	.0	.0	1.1	
2<5	NO PCP	.1	.1	.3	.7	.1	.0	*	*	.0	.1	1.3	
	TOT %	.1	.2	.5	1.1	.3	*	*	*	.0	.1	2.4	
	PCP	*	.1	.9	2.0	.5	.1	*	.1	.0	.1	4.0	
5<10	NO PCP	.2	.3	2.6	5.1	1.2	.2	.1	.1	.0	.0	9.7	
	TOT %	.2	.4	3.5	7.2	1.7	.4	.1	.1	.0	.1	13.7	
	PCP	*	.1	.7	2.5	.5	.1	*	.0	.0	.1	4.0	
10+	NO PCP	.4	2.6	21.3	44.1	8.2	.8	.4	.4	.0	.9	79.2	
	TOT %	.5	2.7	22.0	46.6	8.7	.9	.4	.4	.0	.9	83.2	
	TOT OBS												3842
	TOT PCT	.8	3.5	26.2	55.1	10.8	1.4	.6	.6	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.1	*	.1	.1	.0	.0	*	.0		.2	
	11-21	.0	*	.1	.1	*	*	*	.0	.0		.3	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.1	.1	.2	.1	*	*	*	.0	.0	.5	
	0-3	*	*	.1	*	*	*	.0	.0	.0	.1	.2	
2<5	4-10	*	.1	.3	.6	.2	*	*	*	.0		1.4	
	11-21	*	.1	.3	.8	.1	*	*	*	.0		1.3	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.2	
	TOT %	.1	.2	.7	1.5	.3	.1	*	*	.0	.1	3.0	
	0-3	*	*	.1	.3	.1	.1	*	.0	.0	.2	.8	
5<10	4-10	.1	.3	1.5	2.8	.5	.1	.1	.1	.0		5.6	
	11-21	*	.1	1.6	3.9	.8	.1	.0	.0	.0		6.6	
	22+	*	*	.1	.4	.1	.0	.0	*	.0		.5	
	TOT %	.2	.5	3.3	7.4	1.5	.3	.1	.1	.0	.2	13.5	
	0-3	.2	.4	.8	1.3	.5	.3	*	*	.0	1.1	4.6	
10+	4-10	.3	2.0	11.4	20.8	3.1	.4	.1	.2	.0		38.3	
	11-21	*	.5	8.5	25.0	4.0	.2	.1	.1	.0		38.4	
	22+	.0	*	.3	.9	.2	*	.0	.0	.0		1.3	
	TOT %	.5	2.9	21.1	47.9	7.8	.8	.3	.3	.0	1.1	82.7	
	TOT OBS												6188
	TOT PCT	.7	3.6	25.3	57.1	9.8	1.2	.4	.4	.0	1.4	100.0	

PERIOD: (PRIMARY) 1920-1974
(OVER-ALL) 1855-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.5	1.8	4.9	12.6	4.6	1.9	.3	.3	.1	27.9	72.1	779
06&09	1.3	.6	1.7	8.3	12.2	4.0	2.7	.6	.0	.1	31.6	68.4	772
12&15	.7	.5	1.3	7.3	10.2	6.6	2.6	.5	.4	.4	30.4	69.6	823
18&21	.3	.7	1.7	7.5	10.9	4.4	1.8	.7	.1	.2	28.4	71.6	866
TOT	26	19	53	227	370	159	73	17	6	7	957	2283	3240
PCT	.8	.6	1.6	7.0	11.4	4.9	2.3	.5	.2	.2	29.5	70.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.7	3.3	14.0	81.7	1339
06&09	.3	.0	.5	3.7	15.6	80.0	1696
12&15	.1	.3	.1	3.0	10.9	85.6	1440
18&21	.1	.2	.7	2.3	13.5	83.3	1782
TOT	10	10	32	190	849	5166	6257
PCT	.2	.2	.5	3.0	13.6	82.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	3.3	9.8	19.4	70.8	756
06&09	1.5	4.0	13.7	19.6	66.7	745
12&15	.7	2.6	11.7	20.0	68.2	803
18&21	.4	3.0	11.1	18.1	70.8	845
TOT	28	101	364	607	2178	3149
PCT	.9	3.2	11.6	19.3	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.0	.0	.0	.0	.0	1	*
90/94	.0	.0	.0	.1	.6	.3	.1	.0	36	1.1
85/89	.0	.0	.0	.3	2.0	4.3	1.2	.6	265	8.3
80/84	.0	.0	.0	.1	4.0	32.2	29.0	7.1	2313	72.4
75/79	.0	.0	.0	.0	.2	1.4	8.2	7.9	565	17.7
70/74	.0	.0	.0	.0	.0	.0	.0	.5	15	.5
TOTAL	0	0	1	15	219	1221	1226	513	3195	100.0
PCT	.0	.0	*	.5	6.9	38.2	38.4	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.1	.3	.5	.2	.0	.0	.0	.0	.0
.1	.3	2.2	4.7	.8	.1	*	*	.0	.0
.3	2.1	20.3	41.3	6.5	.8	.3	.3	.0	.6
.2	.9	3.7	8.5	2.7	.5	.3	.3	.0	.6
.0	.1	.1	.2	.1	*	.0	.0	.0	.0
.7	3.4	26.5	55.3	10.4	1.4	.6	.6	.0	1.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	84	83	81	77	75	72	80.4	1811
06&09	90	85	83	80	77	75	70	80.2	2641
12&15	95	90	87	82	78	75	72	82.2	1978
18&21	95	89	86	82	78	76	74	81.8	2693
TOT	95	88	85	81	77	75	70	81.2	9123

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	2.8	33.5	48.7	14.8	82	759
06&09	.0	.1	2.4	30.9	44.8	21.9	83	842
12&15	.0	.5	9.6	43.3	32.5	14.1	80	813
18&21	.0	1.1	12.0	44.3	29.2	13.5	79	845
TOT	0	16	220	1240	1258	525	81	3259

PERIOD: (PRIMARY) 1920-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
9/10	.0	.0	.0	.0	.0	.2	.1	9	.0	.3
7/8	.0	.0	*	.1	.1	.5	.0	24	.0	.7
6	.0	.0	.1	.1	.3	.3	.0	27	.0	.8
5	.0	.0	.1	.1	1.0	.1	.0	46	.0	1.3
4	.0	.0	.1	.5	1.6	*	.0	79	.0	2.3
3	.0	.0	.1	.8	2.0	.0	.0	102	*	2.9
2	.0	*	.2	3.5	1.1	.1	.0	171	.1	4.9
1	.0	.0	.3	6.2	1.1	.0	.0	262	.1	7.5
0	.0	.1	1.2	14.3	.5	.0	.0	554	.1	16.0
-1	.0	.0	3.1	15.5	.1	.0	.0	647	.1	18.7
-2	.0	.1	6.4	9.4	*	.0	.0	548	.1	15.8
-3	.0	*	6.3	3.9	.1	.0	.0	355	.1	10.2
-4	.0	.3	5.7	1.6	.0	.0	.0	262	.0	7.6
-5	.0	.5	4.2	.5	.0	.0	.0	178	.0	5.2
-6	.0	.7	1.9	.1	.0	.0	.0	93	.0	2.7
-7/-8	.0	1.1	.8	*	.0	.0	.0	66	*	1.9
-9/-10	.0	.5	.1	.0	.0	.0	.0	21	.0	.6
-11/-13	.1	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	2	111	1061	1955	275	42	6	3452	17	3435
PCT	.1	3.2	30.7	56.6	8.0	1.2	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.1	.0	.0	.0	.6
1-2	.3	.3	.0	.0	.0	.0	.6
3-4	.1	.0	.1	.0	.0	.0	.2
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	.3	.1	.0	.0	1.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.6
1-2	.1	1.3	.3	.0	.0	.0	1.7
3-4	.0	.7	.6	.0	.0	.0	1.3
5-6	.2	*	.3	.0	.0	.0	.4
7	.0	.1	.0	*	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	1.2	*	.0	.0	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.0	.0	.0	.0	1.9
1-2	.4	7.0	1.5	.0	.0	.0	8.8
3-4	.0	4.9	6.7	.1	.0	.0	11.7
5-6	.0	.9	3.1	.2	.0	.0	4.2
7	.0	.1	1.3	.1	.0	.0	1.5
8-9	.0	.1	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	14.7	13.0	.3	.0	.0	28.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.0	.0	.0	.0	2.3
1-2	.3	10.7	4.3	.0	.0	.0	15.3
3-4	.0	8.0	14.1	*	.0	.0	22.2
5-6	.0	1.8	7.7	.1	.0	.0	9.6
7	.0	*	1.6	.4	.0	.0	2.1
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	22.2	27.8	.8	.0	.0	51.8

PERIOD: (OVER-ALL) 1963-1974

MAY

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4
1-2	.3	2.0	.9	.0	.0	.0	3.2
3-4	.0	.9	2.2	.0	.0	.0	3.2
5-6	.0	.2	.8	.1	.0	.0	1.1
7	.0	.1	.6	.1	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.4	4.6	.3	.0	.0	8.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	*	.3	*	.0	.0	.0	.3
3-4	.0	.2	.1	.0	.0	.0	.4
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.3	.1	.0	.0	.0	.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.2	.0	.0	.0	1.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.4	.1	.0	.0	.0	.4	
3-4	.0	.1	.2	.0	.0	.0	.2	
5-6	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	*	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.7	.3	*	.0	.0	1.0	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.7	.1	.0	.0	.0	8.7	
1-2	2.2	22.2	7.0	.0	.0	.0	31.4	
3-4	.1	14.9	23.8	.1	.0	.0	38.9	
5-6	.2	3.0	11.8	.4	.0	.0	15.4	
7	.0	.4	3.4	.6	.0	.0	4.4	
8-9	.0	.2	.6	.2	.0	.0	.9	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	45.3	46.8	1.5	.0	.0	100.0	1266

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	10.7	16.6	7.8	2.5	.5	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1060	3
6-7	.1	2.6	11.9	14.1	4.4	1.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	929	5
8-9	*	.5	2.2	3.4	3.8	1.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	6
10-11	.0	.4	.4	.7	.6	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	6
12-13	.0	.0	.5	.3	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
>13	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
INDET	1.3	2.1	2.9	1.9	.6	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	242	3
TOTAL	80	430	910	746	321	101	27	9	13	2	0	0	0	0	0	0	0	0	0	2639	4
PCT	3.0	16.3	34.5	28.3	12.2	3.8	1.0	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.4	10.8	.0	.0	.0	.0	.0	16.2	10.8	.0	.0	.0	.0	.0	.0	73.0
NE	2.8	8.4	2.2	.0	.0	.0	.0	13.5	3.9	.0	.0	.0	.0	.0	.0	82.6
E	2.4	3.4	.5	.0	.0	.0	.0	6.2	7.0	.3	.9	.0	.2	.0	.0	85.4
SE	3.6	4.7	1.0	.0	.0	.0	.0	8.9	5.7	.1	.5	.0	.1	.0	.0	84.8
S	4.5	4.1	1.8	.0	.0	.0	.0	10.0	7.3	.2	.2	.0	.4	.0	.0	81.9
SW	25.0	1.3	11.8	.0	.0	.0	.0	38.2	7.9	.0	.0	.0	.0	.0	.0	53.9
W	18.2	81.8	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	6.3	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	93.8
TOT PCT	3.4	4.4	1.0	.0	.0	.0	.0	8.6	6.2	.1	.6	.0	.2	.0	84.4	
TOT OBS:	3796															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	4.7	1.4	.0	.0	.0	.0	8.2	4.0	.1	.3	.0	.1	.0	87.2	
06&09	4.4	4.7	.9	.0	.0	.0	.0	9.8	7.5	.2	.8	.0	.3	.0	81.3	
12&15	3.7	4.0	1.1	.0	.0	.0	.0	8.7	6.0	.1	.4	.0	.1	.0	84.8	
18&21	2.8	4.5	.7	.0	.0	.0	.0	8.0	6.8	.1	.6	.0	.1	.0	84.3	
TOT PCT	3.4	4.5	1.0	.0	.0	.0	.0	8.7	6.1	.1	.6	.0	.2	.0	84.3	
TOT OBS:	3810															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	*	.0	.0	.0		.2	6.2	.2	.2	.1	.3	.3	.2	.2	.2
NE	.1	1.4	.7	*	.0	.0		2.3	9.7	2.2	2.2	2.5	2.1	3.2	2.0	2.3	1.7
E	.5	11.1	12.6	.9	*	.0		25.1	11.8	28.4	23.2	27.0	22.6	29.0	23.7	24.3	22.4
SE	.8	20.1	36.9	4.1	*	.0		61.9	13.2	58.1	64.2	60.2	66.4	54.9	64.1	62.3	65.5
S	.2	2.7	5.8	.8	*	.0		9.5	13.7	10.1	9.0	9.2	7.4	12.0	9.2	9.8	9.4
SW	.1	.2	.2	*	.0	.0		.5	10.2	.3	.7	.3	.8	.4	.6	.4	.4
W	*	*	*	*	.0	.0		.1	11.1	.1	.1	.1	.0	.1	.0	.2	.1
NW	*	*	*	.0	.0	.0		.1	5.7	.1	.0	.1	.1	*	*	.1	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.5	.4	.5	.2	.2	.3	.4	.2
TOT OBS	201	3360	5289	548	5	0	9403		12.7	926	890	1740	978	950	1123	1822	974
TOT PCT	2.1	35.7	56.2	5.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	.0	.0	.0		.2	6.2	.2	.1	.2	.2
NE	.6	1.4	.2	*	.0		2.3	9.7	2.2	2.3	2.5	2.1
E	3.2	17.5	4.3	.1	.0		25.1	11.8	25.9	25.4	26.1	23.6
SE	5.2	39.7	16.6	.4	.0		61.9	13.2	61.1	62.5	59.9	63.4
S	.9	5.6	2.9	.1	.0		9.5	13.7	9.6	8.6	10.5	9.7
SW	.1	.3	.1	.0	.0		.5	10.2	.5	.5	.5	.4
W	*	*	*	.0	.0		.1	11.1	.1	*	*	.1
NW	*	*	.0	.0	.0		.1	5.7	.1	.1	*	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.5	.4	.2	.4
TOT OBS	999	6088	2260	56	0	9403		12.7	1816	2718	2073	2796
TOT PCT	10.6	64.7	24.0	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.45 33.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	2.3	38.9	53.2	5.0	.1	.0	12.4	100.0	1816
06&09	.4	1.9	38.3	53.7	5.7	.0	.0	12.4	100.0	2718
12&15	.2	1.4	31.4	60.3	6.6	*	.0	13.3	100.0	2073
18&21	.4	1.6	34.4	57.7	5.9	.1	.0	12.9	100.0	2796
TOT	35	166	3360	5289	548	5	0	12.7		9403
PCT	.4	1.8	35.7	56.2	5.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.1	.0		5.2
NE	.6	.8	.5	.3		3.9
E	9.6	9.0	6.8	2.3		3.7
SE	17.5	16.8	16.6	6.2		4.0
S	2.3	2.9	4.6	2.0		4.8
SW	.1	.1	.1	*		4.7
W	.0	.0	*	*		7.4
NW	.0	.0	.1	.0		5.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	*		3.7
TOT OBS	947	934	907	340	3128	4.0
TOT PCT	30.3	29.9	29.0	10.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
NE	.0	.0	.1	.1	.2	*	*	.0	.0	.0	1.9	
E	.1	*	.3	1.6	2.5	1.0	.6	.1	.0	*	21.5	
SE	.2	.2	.7	4.1	5.9	2.5	1.4	.3	*	*	41.8	
S	.2	*	.3	1.4	1.8	.5	.1	*	*	.0	7.5	
SW	*	.0	*	*	*	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.4	
TOT OBS	16	8	45	224	327	130	68	14	2	2	2292	3128
TOT PCT	.5	.3	1.4	7.2	10.5	4.2	2.2	.4	.1	.1	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	5.4	6.7	6.8	6.9	6.9	6.9	6.9	6.9
* OR >1000	12.7	16.4	17.1	17.2	17.3	17.3	17.3	17.3
* OR >600	16.8	22.8	24.1	24.3	24.4	24.4	24.4	24.4
* OR >300	17.5	24.1	25.5	25.8	25.8	25.8	25.9	25.9
* OR >150	17.6	24.3	25.7	26.0	26.1	26.1	26.1	26.1
* OR > 0	17.7	24.7	26.1	26.4	26.5	26.5	26.6	26.6
TOTAL	555	773	818	827	830	831	833	833

TOTAL NUMBER OF OBS: 3132 PCT FREQ NH <5/8: 73.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.9	13.3	22.1	20.6	12.0	6.8	7.4	5.5	7.1	.3	3251

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.45 33.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	*	*	.0	.0	.0	.0	.1	
	PCP	*	*	.1	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	PCP	.0	*	.2	.5	.2	.0	.0	.0	.0	.0	.9	
2<5	NO PCP	*	*	.4	.7	.2	*	.0	*	.0	.0	1.4	
	TOT %	*	.1	.6	1.2	.3	*	.0	*	.0	.0	2.3	
	PCP	*	.2	.9	2.5	.5	.1	.1	*	.0	.0	4.2	
5<10	NO PCP	*	.3	3.3	6.0	1.6	.1	.0	.0	.0	.1	11.3	
	TOT %	.1	.4	4.2	8.5	2.0	.1	.1	*	.0	.1	15.5	
	PCP	.0	.1	.5	2.0	.3	.1	*	.0	.0	*	3.1	
10+	NO PCP	.1	1.7	22.1	45.4	8.5	.2	.0	*	.0	.3	78.5	
	TOT %	.1	1.8	22.7	47.3	8.9	.3	*	*	.0	.4	81.6	
	TOT OBS												3792
	TOT PCT	.2	2.3	27.6	57.3	11.4	.5	.1	.1	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	*	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	*	*	*	.0	.0	.0		.1	
	11-21	.0	.0	.1	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.1	.1	*	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	*	*	.1	.1	*	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.2	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.3	.1	.0	.0	.0	.0	.0	.6	
	0-3	.0	.0	*	*	*	.0	.0	.0	.0	*	.1	
2<5	4-10	.0	*	.2	.5	.1	*	.0	.0	.0		.8	
	11-21	*	.1	.4	1.1	.2	*	*	*	.0		1.8	
	22+	.0	.0	*	.2	.1	.0	.0	.0	.0		.3	
	TOT %	*	.1	.7	1.8	.4	*	*	*	.0	*	3.0	
	0-3	*	.0	.1	.1	.1	.1	*	*	.0	.1	.5	
5<10	4-10	*	.2	1.6	2.8	.6	*	*	*	.0		5.2	
	11-21	*	.2	2.1	5.0	1.0	*	.0	.0	.0		8.4	
	22+	.0	*	.2	.5	.1	.0	*	.0	.0		.8	
	TOT %	.1	.4	4.0	8.5	1.7	.1	*	*	.0	.1	15.0	
	0-3	*	.1	.5	.8	.2	*	.0	*	.0	.3	2.0	
10+	4-10	.1	1.3	10.4	16.7	2.4	.2	*	*	.0		31.3	
	11-21	.0	.5	10.9	28.8	4.7	.1	*	.0	.0		44.9	
	22+	.0	.0	.5	2.1	.4	.0	.0	.0	.0		3.0	
	TOT %	.2	1.8	22.3	48.4	7.7	.4	*	.1	.0	.3	81.1	
	TOT OBS												6193
	TOT PCT	.3	2.4	27.2	59.1	9.9	.5	.1	.1	.0	.4	100.0	

PERIOD: (PRIMARY) 1914-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.4	1.6	6.0	9.8	3.0	1.9	.8	.1	.0	23.9	76.1	773
06&09	.5	.1	1.3	7.1	10.3	2.5	2.5	.4	.0	.1	24.9	75.1	751
12&15	.4	.2	1.4	8.6	10.4	5.5	2.6	.2	.0	.1	29.4	70.6	839
18&21	.7	.2	1.3	6.3	10.4	5.0	1.4	.4	.1	.0	25.9	74.1	843
TOT	16	8	45	224	328	130	68	14	2	2	837	2369	3206
PCT	.5	.2	1.4	7.0	10.2	4.1	2.1	.4	.1	.1	26.1	73.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.1	.5	3.1	16.2	80.1	1306
06&09	.1	.2	.5	3.3	16.6	79.3	1701
12&15	.0	.1	.6	2.9	12.8	83.6	1428
18&21	.2	.6	.8	2.7	14.2	81.5	1772
TOT	6	15	38	185	930	5033	6207
PCT	.1	.2	.6	3.0	15.0	81.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	2.4	9.9	15.2	75.0	751
06&09	.6	2.1	10.2	15.7	74.1	725
12&15	.4	2.0	12.3	18.0	69.7	832
18&21	.7	2.5	10.2	16.5	73.3	824
TOT	16	71	334	514	2284	3132
PCT	.5	2.3	10.7	16.4	72.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.4	*	.0	.0	15	.5
85/89	.0	.0	.1	.2	1.4	2.3	.5	.1	142	4.6
80/84	.0	.0	.0	.2	4.3	33.6	19.9	4.8	1927	62.6
75/79	.0	.0	.0	.0	.2	6.5	15.0	9.3	956	31.1
70/74	.0	.0	.0	.0	.0	.0	.1	1.1	36	1.2
TOTAL	0	0	2	15	191	1306	1091	471	3076	100.0
PCT	.0	.0	.1	.5	6.2	42.5	35.5	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.2	.1	.0	.0	.0	.0	.0
.0	.1	1.6	2.3	.6	.0	.0	.0	.0	.1
.1	1.5	19.1	35.9	5.6	.1	.0	.0	.0	.3
.1	.6	7.0	18.6	4.2	.3	*	*	.0	.2
.0	*	.3	.6	.2	*	.0	.0	.0	.0
.2	2.3	28.1	57.6	10.8	.5	*	*	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	83	82	80	76	74	68	79.4	1798
06&09	90	83	82	79	76	73	68	79.2	2692
12&15	94	88	85	81	77	75	72	81.1	2030
18&21	93	88	85	81	77	74	68	80.7	2744
TOT	94	87	84	80	76	74	68	80.1	9264

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	2.4	41.8	41.5	13.9	82	710
06&09	.0	.1	1.5	35.1	40.4	22.8	83	789
12&15	.0	.8	7.6	46.3	33.0	12.3	80	790
18&21	.0	1.0	12.9	46.3	27.0	12.8	79	799
TOT	0	17	192	1310	1091	478	81	3088

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
9/10	.0	.0	.0	.0	*	.1	.2	.0	11	.0	.3
7/8	.0	.0	.0	.1	*	.3	.2	.0	20	.0	.6
6	.0	.0	*	*	.2	.6	*	.0	28	.0	.8
5	.0	.0	.0	.1	.2	.9	.2	.0	42	.0	1.3
4	.0	.0	.0	.1	1.0	.7	*	.0	62	*	1.8
3	.0	.0	.0	.3	1.4	.8	.0	.0	81	.0	2.5
2	.0	.0	.0	.7	4.5	.6	.0	.0	194	.0	5.9
1	.0	.0	.0	1.8	7.6	.2	.0	.0	317	.1	9.5
0	.0	.0	.2	6.9	10.9	.1	.0	.0	597	.3	17.8
-1	.0	.0	.1	10.2	7.6	.1	.0	.0	593	.1	17.9
-2	.0	.0	.1	11.1	3.7	.1	.0	.0	497	.0	15.0
-3	.0	.0	.2	8.7	1.7	.1	.0	.0	355	.1	10.7
-4	.0	.0	.6	5.9	.5	*	.0	.0	235	.1	7.0
-5	.0	.0	.9	2.8	.3	.0	.0	.0	130	.0	3.9
-6	.0	.0	.9	1.1	.0	.0	.0	.0	64	.0	1.9
-7/-8	.0	*	1.1	.6	*	.0	.0	.0	57	.0	1.7
-9/-10	.0	.1	.2	.2	.0	.0	.0	.0	13	.0	.4
-11/-13	*	.1	.1	.0	.0	.0	.0	.0	7	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	6	145	1671	1311	146	23	1	3306	20	3286
PCT	.1	.2	4.4	50.5	39.7	4.4	.7	*	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.0	.9	.2	.0	.0	.0	1.1
3-4	.0	.6	.3	.0	.0	.0	.9
5-6	.0	*	.5	.1	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	1.1	.1	.0	.0	3.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.8
1-2	.3	8.1	1.8	.0	.0	.0	10.1
3-4	.1	4.3	7.5	.2	.0	.0	12.0
5-6	.0	1.5	4.7	.4	.0	.0	6.6
7	.0	.0	2.4	.3	.0	.0	2.6
8-9	.0	.2	.6	.1	.0	.0	.9
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.5	17.3	1.0	.0	.0	33.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.1	.0	.0	.0	.9
1-2	.3	7.3	4.2	.0	.0	.0	11.8
3-4	.1	5.6	14.6	.3	.0	.0	20.6
5-6	.0	.8	9.8	.4	.0	.0	11.0
7	.0	.1	4.0	.9	.0	.0	5.0
8-9	.0	*	1.7	.3	.0	.0	2.0
10-11	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.5	34.6	2.2	.0	.0	51.8

PERIOD: (OVER-ALL) 1963-1974 AREA 0005 NATAL

TABLE 18 (CONT) 4.4S 33.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.8	.8	.0	.0	.0	2.7	.0	.1	.1	.0	.0	.0	.2
3-4	.0	1.1	2.8	.0	.0	.0	3.9	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.2	1.9	.2	.0	.0	2.2	.0	*	.1	.0	.0	.0	.1
7	.0	.0	1.5	.1	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	7.1	.5	.0	.0	11.0	.0	.2	.2	.0	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	1.6	.2	.0	.0	.0	2.7	
1-2	.6	18.4	7.0	.0	.0	.0	26.1	
3-4	.2	11.7	25.1	.4	.0	.0	37.4	
5-6	.1	2.5	16.9	1.0	.0	.0	20.5	
7	.0	.1	8.0	1.2	.0	.0	9.3	
8-9	.0	.2	2.4	.4	.0	.0	3.0	
10-11	.0	.0	.3	.4	.0	.0	.8	
12	.0	.0	.1	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	34.5	60.0	3.8	.0	.0	100.0	1166

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	7.3	15.8	8.7	2.7	.7	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	970	4
6-7	*	3.2	9.8	14.5	6.3	2.8	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	995	5
8-9	*	.1	1.3	3.9	4.2	1.9	.8	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	331	6
10-11	.0	.2	.4	.7	1.2	.5	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	7
12-13	.0	.0	.6	*	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
>13	.0	.0	.0	.1	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	.5	1.1	2.2	2.0	1.1	.1	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	4
TOTAL	44	310	786	780	413	158	74	28	18	4	0	0	0	0	0	0	0	0	0	2615	5
PCT	1.7	11.9	30.1	29.8	15.8	6.0	2.8	1.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	2.3	5.7	.6	.0	.0	.0	.0	8.6	7.5	.0	4.6	.0	.0		.0	79.3
E	2.5	4.2	.7	.0	.0	.0	.0	7.0	5.0	.1	.6	.0	.0		.1	87.1
SE	2.5	4.1	.7	.0	.0	.0	.0	7.0	6.4	.1	.6	.0	*		.0	85.9
S	4.4	4.5	2.1	.0	.0	.0	.0	10.6	7.9	.5	.5	.0	.0		.0	80.5
SW	13.1	.0	.9	.0	.0	.0	.0	14.0	8.4	.0	.9	.0	3.7		.0	72.9
W	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	8.3	.0	11.1		.0	69.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0		.0	76.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	16.7	.0	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0		.0	66.7
TOT PCT	2.8	4.2	.9	.0	.0	.0	.0	7.5	6.3	.1	.6	.0	.1		*	85.3
TOT OBS:	4021															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.7	4.3	.8	.0	.0	.0	.0	7.7	6.2	.4	.5	.0	.0		.0	85.2
06&09	3.4	4.7	.4	.0	.0	.0	.0	8.5	7.9	.2	.8	.0	.1		.0	82.6
12&15	2.4	4.0	1.3	.0	.0	.0	.0	7.2	6.1	.0	.3	.0	.2		.1	86.2
18&21	2.4	3.9	1.0	.0	.0	.0	.0	6.8	5.1	.0	.9	.0	.0		.0	87.2
TOT PCT	2.8	4.2	.9	.0	.0	.0	.0	7.5	6.3	.1	.6	.0	.1		*	85.3
TOT OBS:	4034															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	.1	.0	.0	.0		.1	7.0	.4	.1	.2	.3	.1	*	.1	.1
NE	.1	.7	.5	*	.0	.0		1.4	10.3	1.5	1.3	1.4	1.6	1.1	1.2	1.2	1.7
E	.4	8.4	12.6	1.1	*	.0		22.5	12.8	24.5	21.8	23.5	22.3	23.7	21.4	22.8	18.4
SE	.4	16.1	40.6	6.7	.1	.0		63.9	14.5	61.3	64.9	62.5	64.3	62.8	65.4	64.1	67.0
S	.1	2.5	7.2	1.6	*	.0		11.3	15.2	11.3	10.7	11.7	10.7	11.4	11.1	11.2	12.0
SW	*	.2	.2	*	.0	.0		.4	12.1	.3	.3	.6	.6	.5	.4	.2	.4
W	.0	*	*	*	.0	.0		.1	16.5	.3	.2	.0	.0	.2	.1	.1	.1
NW	.0	*	*	.0	.0	.0		*	7.0	.1	*	.1	*	*	.1	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.4	.6	.1	.1	.2	.2	.2	.3
TOT OBS	115	2619	5712	887	13	0	9346		14.1	1026	859	1758	910	1043	1023	1819	908
TOT PCT	1.2	28.0	61.1	9.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	.0	.0	.0		.1	7.0	.3	.2	.1	.1
NE	.3	.8	.2	*	.0		1.4	10.3	1.4	1.5	1.1	1.4
E	1.9	15.0	5.4	.1	*		22.5	12.8	23.3	23.1	22.6	21.4
SE	3.4	36.8	22.6	1.1	*		63.9	14.5	62.9	63.1	64.1	65.1
S	.6	6.2	4.2	.3	.0		11.3	15.2	11.1	11.4	11.2	11.5
SW	*	.3	.1	.0	.0		.4	12.1	.3	.6	.5	.3
W	*	*	.1	.0	.0		.1	16.5	.2	.0	.1	.1
NW	*	*	.0	.0	.0		*	7.0	.1	.1	.1	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.5	.1	.2	.3
TOT OBS	628	5543	3033	141	1	9346		14.1	1885	2668	2066	2727
TOT PCT	6.7	59.3	32.5	1.5	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.45 33.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	.7	30.4	60.4	7.9	.2	.0	13.8	100.0	1885
06&09	.1	1.3	31.5	58.2	8.7	.2	.0	13.6	100.0	2668
12&15	.2	.6	24.7	62.8	11.6	.1	.0	14.7	100.0	2066
18&21	.3	1.1	25.5	63.2	9.8	.1	.0	14.3	100.0	2727
TOT	23	92	2619	5712	887	13	0	14.1		9346
PCT	.2	1.0	28.0	61.1	9.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.1	.0		1.9
NE	.4	.3	.2	*		3.1
E	8.7	7.6	5.2	1.6		3.5
SE	19.5	19.3	17.6	6.6		3.9
S	2.7	3.1	4.2	1.8		4.5
SW	.1	.1	.1	.1		4.6
W	*	.1	*	.1		5.4
NW	.0	*	*	.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.1	*		4.2
TOT OBS	1036	997	897	335	3265	3.9
TOT PCT	31.7	30.5	27.5	10.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.2	
NE	.0	.0	.0	.1	*	.1	*	.0	.0	.0	.9	
E	.1	.1	.3	.9	1.9	1.2	.3	.2	*	*	18.1	
SE	.1	.2	1.2	4.3	6.3	2.7	1.2	.4	.3	.1	46.1	
S	.1	*	.4	1.4	1.3	.8	.4	.1	*	*	7.4	
SW	.0	.0	*	.1	*	*	*	.0	.0	.0	.2	
W	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
TOT OBS	9	11	61	223	312	160	61	23	13	7	2385	3265
TOT PCT	.3	.3	1.9	6.8	9.6	4.9	1.9	.7	.4	.2	73.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.3	3.1	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	5.7	7.6	8.0	8.0	8.0	8.0	8.0	8.0
* OR >1000	13.3	16.7	17.3	17.4	17.5	17.5	17.5	17.5
* OR >600	17.8	23.2	24.1	24.3	24.3	24.3	24.3	24.3
* OR >300	18.7	24.7	26.0	26.1	26.2	26.2	26.2	26.2
* OR >150	18.8	25.0	26.3	26.5	26.5	26.5	26.5	26.5
* OR > 0	18.9	25.1	26.4	26.6	26.8	26.8	26.8	26.8
TOTAL	616	820	862	869	873	874	874	874

TOTAL NUMBER OF OBS: 3263

PCT FREQ NH <5/8: 73.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.8	13.7	20.2	18.9	13.1	6.9	6.9	6.1	7.3	.2	3437

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
	PCP	.0	.0	.1	.2	*	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.2	.5	.2	*	.0	.0	.0	.0	1.0	
2<5	NO PCP	.1	*	.2	.5	.2	*	.1	*	.0	.0	1.1	
	TOT %	.1	*	.4	1.0	.4	.1	.1	*	.0	.0	2.1	
	PCP	.0	.1	.7	2.0	.7	.1	.0	.0	.0	.0	3.5	
5<10	NO PCP	*	.1	2.4	6.8	1.7	.1	.1	*	.0	*	11.3	
	TOT %	*	.1	3.1	8.8	2.4	.2	.1	*	.0	*	14.8	
	PCP	.0	*	.5	1.7	.3	.0	.0	.0	.0	*	2.5	
10+	NO PCP	.1	.9	18.2	51.4	8.8	.4	.1	.1	.0	.1	80.0	
	TOT %	.1	.9	18.8	53.1	9.1	.4	.1	.1	.0	.1	82.6	
	TOT OBS												4016
	TOT PCT	.2	1.1	22.4	63.1	12.0	.7	.2	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	*	.0	*	.0	.0	.0		.1	
	11-21	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.1	.1	*	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	.0	*	.1	*	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.2	.1	*	.0	.0	.0		.4	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.4	.1	*	.0	.0	.0	.0	.6	
	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	.1	
2<5	4-10	*	*	.2	.4	.1	*	*	*	.0		.7	
	11-21	*	.0	.3	.9	.4	*	.0	*	.0		1.6	
	22+	.0	*	*	.3	.1	.0	*	.0	.0		.4	
	TOT %	*	*	.5	1.5	.5	.1	*	*	.0	*	2.8	
	0-3	.0	.0	*	.1	*	.0	.0	.0	.0	*	.1	
5<10	4-10	*	.1	1.1	2.1	.6	*	.0	*	.0		3.9	
	11-21	.0	.1	2.0	5.5	1.5	.1	*	.0	.0		9.2	
	22+	.0	.0	.2	1.1	.2	.0	*	.0	.0		1.5	
	TOT %	*	.2	3.3	8.8	2.2	.1	.1	*	.0	*	14.8	
	0-3	.1	.1	.3	.4	.1	*	.0	.0	.0	.1	1.0	
10+	4-10	*	.6	7.2	13.5	2.1	.1	*	*	.0		23.5	
	11-21	.0	.3	10.4	34.2	5.4	.2	.0	.0	.0		50.5	
	22+	.0	*	.9	4.4	1.1	*	.0	.0	.0		6.5	
	TOT %	.1	1.0	18.7	52.5	8.7	.3	*	*	.0	.1	81.5	
	TOT OBS												6517
	TOT PCT	.2	1.3	22.7	63.4	11.6	.5	.1	.1	.0	.1	100.0	

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.2	2.2	7.2	8.1	3.6	1.8	1.0	.6	.1	24.9	75.1	830
06&09	.6	.6	1.3	7.0	9.4	4.3	2.0	.8	.4	.4	26.8	73.2	787
12&15	.2	.3	1.9	6.7	9.6	5.6	1.8	.6	.3	.1	27.2	72.8	892
18&21	.1	.1	1.8	5.6	9.8	5.3	1.6	.5	.2	.2	25.3	74.7	869
TOT	9	11	61	224	312	160	61	23	13	7	881	2497	3378
PCT	.3	.3	1.8	6.6	9.2	4.7	1.8	.7	.4	.2	26.1	73.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.6	3.3	15.1	80.8	1434
06&09	.1	.2	.5	2.8	18.0	78.3	1755
12&15	.1	.3	.4	2.2	13.3	83.6	1522
18&21	.1	.2	1.0	2.9	12.7	83.1	1821
TOT	5	16	42	184	966	5319	6532
PCT	.1	.2	.6	2.8	14.8	81.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	2.6	11.2	15.2	73.6	794
06&09	.7	2.8	11.7	16.3	72.0	761
12&15	.2	2.7	10.4	17.6	72.0	863
18&21	.0	2.0	9.2	17.4	73.4	845
TOT	8	82	346	544	2373	3263
PCT	.2	2.5	10.6	16.7	72.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	*	.0	.0	8	.2
85/89	.0	.0	.0	.3	.7	.9	.2	.1	73	2.2
80/84	.0	.0	.0	.1	5.2	21.2	7.6	2.6	1212	36.7
75/79	.0	.0	.0	.1	1.5	20.9	24.7	11.0	1923	58.2
70/74	.0	.0	.0	.0	.0	.1	.5	2.0	85	2.6
65/69	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	0	18	247	1427	1089	523	3304	100.0
PCT	.0	.0	.0	.5	7.5	43.2	33.0	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	.1	.1	*	*	.0	.0	.0	.0
	.0	*	.6	1.3	.3	*	.0	.0	.0	.0
	*	.5	9.6	23.2	3.2	.1	*	.0	.0	.1
	.1	.4	12.9	36.8	7.5	.2	*	.1	.0	.1
	.0	.0	.3	1.5	.6	.1	.0	.0	.0	.0
	.0	*	*	*	.0	.0	.0	.0	.0	.0
	.1	1.0	23.5	62.9	11.7	.5	.1	.1	.0	.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	82	81	78	75	73	69	78.2	1860
06&09	88	82	81	78	75	73	69	78.0	2630
12&15	92	86	84	80	76	74	71	79.9	2017
18&21	94	88	84	79	76	73	69	79.6	2654
TOT	94	85	82	79	75	73	69	79.0	9161

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	3.7	39.7	40.5	16.1	82	793
06&09	.0	.1	3.6	35.4	39.2	21.7	83	839
12&15	.0	1.2	10.4	47.4	28.4	12.6	79	844
18&21	.0	.8	11.9	50.2	24.1	13.0	78	839
TOT	0	18	247	1433	1092	525	80	3315

PERIOD: (PRIMARY) 1921-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	*	3	.0	.1
9/10	.0	.0	.0	.0	.2	.1	.0	13	.0	.4
7/8	.0	.0	.0	.1	.2	.1	.0	15	.0	.4
6	.0	.0	.0	.2	.5	.1	.0	24	.0	.7
5	.0	.0	.1	.6	.6	.0	.0	44	*	1.2
4	.0	.0	.2	1.2	.3	*	.0	60	.0	1.7
3	.0	.0	.4	2.3	.3	.0	.0	108	*	3.1
2	.0	.0	1.8	3.7	.0	.0	.0	190	.0	5.5
1	.0	*	4.3	4.9	.0	.0	.0	322	*	9.2
0	.0	.1	13.3	4.6	*	*	.0	628	.1	18.0
-1	.0	.3	16.4	1.6	.0	.0	.0	637	.1	18.2
-2	.0	.7	13.1	.7	*	.0	.0	501	.1	14.4
-3	.0	1.8	8.7	.1	.0	.0	.0	371	.0	10.7
-4	.0	1.9	5.1	.1	.0	.0	.0	247	.0	7.1
-5	.0	2.2	2.3	*	.0	.0	.0	157	.0	4.5
-6	.1	1.2	.7	.0	.0	.0	.0	70	.0	2.0
-7/-8	.1	1.3	.4	.0	.0	.0	.0	61	.0	1.8
-9/-10	.2	.3	.1	.0	.0	.0	.0	18	.0	.5
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
-14/-16	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	15	336	2326	704	75	16	3	3475	12	3463
PCT	.4	9.7	66.9	20.3	2.2	.5	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.1	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	.1	.2	.1	.0	.0	.0	.4
3-4	*	.2	.2	.0	.0	.0	.4
5-6	.0	*	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.5	.0	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.1	3.5	2.4	.0	.0	.0	5.9
3-4	.0	4.6	7.9	.2	.0	.0	12.7
5-6	.0	.7	5.5	.1	.0	.0	6.3
7	.0	.1	2.0	.3	.0	.0	2.4
8-9	.0	.1	.4	.1	.0	.0	.6
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.2	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	10.3	18.4	.8	.0	.0	29.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.2	5.6	3.4	.0	.0	.0	9.2
3-4	.0	5.2	15.2	.5	.0	.0	20.9
5-6	.0	1.1	13.7	1.5	.0	.0	16.3
7	.0	.2	5.0	2.1	.0	.0	7.2
8-9	.0	.0	.8	.8	.0	.0	1.6
10-11	.0	.0	.4	.2	.0	.0	.6
12	.0	.0	*	.2	.0	.0	.2
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.6	38.6	5.3	.0	.0	56.8

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.3	.0	.0	.0	1.3	.0	.1	.1	.0	.0	.0	.1
3-4	.0	1.5	2.8	.1	.0	.0	4.4	.0	*	.2	.0	.0	.0	.2
5-6	.0	.1	2.4	.7	.0	.0	3.3	.0	.0	*	.0	.0	.0	*
7	.0	.1	.7	.4	.0	.0	1.1	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.1	.4	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.4	1.9	.0	.0	11.4	.0	.1	.4	.0	.0	.0	.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.2	2.4	.1	.0	.0	.0	2.7	
1-2	.4	10.4	6.3	.0	.0	.0	17.1	
3-4	.1	11.6	26.2	1.0	.0	.0	39.0	
5-6	.0	2.0	21.9	2.2	.0	.0	26.1	
7	.0	.3	7.7	2.8	.0	.0	10.8	
8-9	.0	.1	1.3	1.3	.0	.0	2.7	
10-11	.0	.0	.7	.3	.0	.0	1.0	
12	.0	.0	.2	.3	.0	.0	.5	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1350
TOT PCT	.7	26.8	64.4	8.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.2	13.9	9.1	3.6	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	958	4
6-7	.0	.9	8.5	15.8	9.3	2.6	.7	.5	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1091	5
8-9	.0	.2	1.3	4.4	5.3	2.9	1.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	445	7
10-11	.0	.1	.7	.6	.9	.9	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	7
12-13	.0	.0	.3	.2	.4	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
>13	.0	.0	.0	.1	.1	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
INDET	.1	1.0	1.9	1.7	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	176	5
TOTAL	21	209	753	902	583	225	76	35	22	3	0	0	0	0	0	0	0	0	0	2829	5
PCT	.7	7.4	26.6	31.9	20.6	8.0	2.7	1.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1855-1973

AREA 0005 NATAL
4.4S 33.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	7.7	3.2	.0	.0	.0	.0	.0	10.9	.0	.0	.0	.0	1.3		.0	87.8
E	.8	3.7	.4	.0	.0	.0	.0	5.0	4.7	.0	.1	.0	.4		.0	89.8
SE	1.1	2.6	.4	.0	.0	.0	*	4.2	4.2	.0	.1	.0	.2		.0	91.3
S	2.8	3.5	2.2	.0	.0	.0	.2	8.3	6.8	.0	.0	.0	.4		.0	84.4
SW	.0	18.9	2.7	.0	.0	.0	.0	21.6	.0	.0	.0	.0	.0		.0	78.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.3	2.9	.6	.0	.0	.0	*	4.8	4.5	.0	.1	.0	.3		.0	90.3
TOT OBS:	4039															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	2.8	.7	.0	.0	.0	.0	4.7	4.5	.0	.1	.0	.2		.0	90.5
06&09	2.2	3.6	1.0	.0	.0	.0	.0	6.8	4.7	.0	.2	.0	.4		.0	87.9
12&15	.6	2.3	.1	.0	.0	.0	.1	3.1	5.0	.0	.1	.0	.2		.0	91.6
18&21	1.2	2.9	.6	.0	.0	.0	.1	4.8	3.7	.0	.0	.0	.4		.0	91.2
TOT PCT	1.3	2.9	.6	.0	.0	.0	*	4.8	4.5	.0	.1	.0	.3		.0	90.3
TOT OBS:	4049															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	*	*	.0	.0	.0		*	6.0	.1	.0	.1	.0	.0	.0	.0	.2
NE	*	.4	.4	*	.0	.0		.8	10.8	.9	1.0	1.0	.7	.9	.8	.7	.5
E	.1	5.6	12.3	1.1	*	.0		19.1	13.5	18.7	19.2	19.6	20.3	19.4	19.3	18.3	18.1
SE	.2	14.5	48.3	7.4	.1	.0		70.5	15.0	70.2	70.6	69.9	69.7	70.1	70.7	71.4	71.0
S	*	1.6	6.2	1.4	*	.0		9.2	16.0	9.6	8.6	9.0	8.8	9.4	8.7	9.4	10.0
SW	.0	.1	.1	*	.0	.0		.2	13.7	.2	.3	.3	.4	*	.2	.1	.2
W	*	*	.1	.0	.0	.0		.1	11.7	.1	.2	.0	.0	.2	.1	*	.1
NW	*	*	*	.0	.0	.0		.1	8.2	.2	.2	.1	.1	*	.2	.1	*
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.0	.0	.0	.0	.0	.0	.1	.0
TOT OBS	33	2027	6159	904	17	0	9140		14.7	1008	797	1717	875	1047	990	1821	885
TOT PCT	.4	22.2	67.4	9.9	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	*	.0	.0	.0		*	6.0	.1	.1	.0	.1
NE	.1	.6	.1	*	.0		.8	10.8	.9	.9	.8	.6
E	1.0	13.0	5.0	.1	.0		19.1	13.5	18.9	19.8	19.4	18.2
SE	2.5	39.7	27.1	1.0	*		70.5	15.0	70.4	69.8	70.4	71.2
S	.4	4.4	4.2	.2	*		9.2	16.0	9.2	8.9	9.1	9.6
SW	*	.1	*	.0	.0		.2	13.7	.2	.3	.1	.1
W	*	.1	*	.0	.0		.1	11.7	.2	.0	.1	.1
NW	*	.1	.0	.0	.0		.1	8.2	.2	.1	.1	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.0	.0	.0	*
TOT OBS	374	5299	3332	129	6	9140		14.7	1805	2592	2037	2706
TOT PCT	4.1	58.0	36.5	1.4	.1		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.7	22.5	67.9	8.7	.2	.0	14.6	100.0	1805
06&09	.0	.3	27.1	63.1	9.4	.2	.0	14.2	100.0	2592
12&15	.0	.3	18.4	70.1	10.9	.3	.0	15.2	100.0	2037
18&21	*	.2	20.1	69.1	10.4	.1	.0	15.0	100.0	2706
TOT	1	32	2027	6159	904	17	0	14.7		9140
PCT	*	.4	22.2	67.4	9.9	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	*	.0	*	.0		4.8
NE	.6	.2	.1	.1		2.8
E	7.8	5.6	3.8	1.0		3.2
SE	26.6	22.8	17.0	3.8		3.4
S	2.7	2.9	2.9	1.3		4.2
SW	.1	.1	.1	*		3.3
W	.0	.0	.2	*		6.2
NW	.0	.0	.1	*		6.3
VAR	.0	.0	.0	.0		.0
CALM	.0	*	.0	.0		3.0
TOT OBS	1292	1080	828	215	3415	3.5
TOT PCT	37.8	31.6	24.2	6.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NE	*	.0	.0	*	.1	*	.1	.0	.0	.0	.8	
E	.1	.0	.2	.7	1.4	.4	.1	*	.0	*	15.1	
SE	.1	.1	.6	3.3	5.4	2.7	1.2	.4	.1	.1	56.2	
S	*	*	.2	.5	1.3	.7	.3	.1	.1	.0	6.7	
SW	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
W	.0	.0	.0	.1	*	.0	.0	*	.0	.0	.1	
NW	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT OBS	10	4	36	163	282	135	58	18	5	3	2701	3415
TOT PCT	.3	.1	1.1	4.8	8.3	4.0	1.7	.5	.1	.1	79.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.6	.7	.7	.8	.8	.8	.8	.8
* OR >3500	2.0	2.3	2.4	2.4	2.5	2.5	2.5	2.5
* OR >2000	4.9	6.0	6.3	6.4	6.4	6.4	6.4	6.4
* OR >1000	11.4	13.9	14.4	14.6	14.6	14.6	14.6	14.6
* OR >600	15.0	18.5	19.1	19.3	19.3	19.3	19.3	19.3
* OR >300	15.7	19.4	20.1	20.3	20.4	20.4	20.4	20.4
* OR >150	15.7	19.5	20.3	20.4	20.5	20.5	20.5	20.5
* OR > 0	15.8	19.6	20.4	20.7	20.8	20.8	20.8	20.8
TOTAL	534	662	690	700	703	704	704	704

TOTAL NUMBER OF OBS: 3380

PCT FREQ NH <5/8: 79.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.1	16.2	21.2	20.1	13.2	6.6	6.3	4.1	3.9	.2	3521

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.3	.1	.0	.0	.0	.0	.0	.4	
	PCP	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	.4	
2<5	NO PCP	*	*	.2	.7	.2	.0	*	*	.0	.0	1.2	
	TOT %	*	*	.2	.9	.3	*	*	*	.0	.0	1.5	
	PCP	.0	.1	.5	1.1	.5	*	.0	.0	.0	.0	2.1	
5<10	NO PCP	*	.1	2.0	6.7	1.2	.1	*	.1	.0	.0	10.2	
	TOT %	*	.1	2.4	7.8	1.7	.1	*	.1	.0	.0	12.3	
	PCP	.0	.0	.4	1.4	.1	*	.0	.0	.0	.0	1.9	
10+	NO PCP	*	.8	14.9	59.8	8.0	.1	.0	.0	.0	*	83.7	
	TOT %	*	.8	15.3	61.2	8.2	.1	.0	.0	.0	*	85.6	
	TOT OBS												4030
	TOT PCT	.1	1.0	18.0	70.3	10.3	.2	*	.1	.0	*	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	11-21	.0	*	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.2	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.2	.1	.0	.0	.0	.0	.0	.3	
	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	*	.1	.2	.1	*	.0	.0	.0		.3	
	11-21	.0	.0	.1	.6	.2	*	*	*	.0		1.0	
	22+	.0	.0	*	.1	*	*	.0	.0	.0		.2	
	TOT %	*	*	.2	1.0	.3	*	*	*	.0	.0	1.5	
	0-3	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
5<10	4-10	.0	*	.7	1.5	.3	*	.0	*	.0		2.6	
	11-21	*	.1	1.4	4.7	.9	*	*	*	.0		7.1	
	22+	.0	*	.2	1.4	.2	*	.0	.0	.0		1.8	
	TOT %	*	.1	2.2	7.6	1.5	.1	*	.1	.0	.0	11.6	
	0-3	.0	.0	.1	.2	*	.0	.0	.0	.0	*	.3	
10+	4-10	*	.4	4.6	11.9	1.1	*	.0	.0	.0		18.1	
	11-21	.0	.3	10.9	44.2	5.2	.1	.0	.0	.0		60.7	
	22+	.0	*	.8	5.6	1.0	*	.0	.0	.0		7.3	
	TOT %	*	.6	16.3	62.0	7.3	.1	.0	.0	.0	*	86.4	
	TOT OBS												6384
	TOT PCT	.1	.8	18.8	70.9	9.2	.2	*	.1	.0	*	100.0	

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.1	1.3	3.9	5.9	3.3	1.4	.2	.2	.0	16.9	83.1	836
06&09	.5	.0	1.0	4.7	9.2	3.5	1.1	.5	.1	.1	20.5	79.5	838
12&15	.3	.1	.8	4.7	9.4	4.5	2.3	.4	.1	.0	22.7	77.3	902
18&21	.0	.2	1.1	5.4	7.8	4.0	1.7	.9	.1	.2	21.4	78.6	915
TOT	10	4	36	163	282	135	58	18	5	3	714	2777	3491
PCT	.3	.1	1.0	4.7	8.1	3.9	1.7	.5	.1	.1	20.5	79.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.4	1.6	11.7	86.3	1348
06&09	.1	.2	.4	1.4	13.1	84.8	1706
12&15	.0	.1	.1	1.1	11.1	87.6	1510
18&21	.2	.1	.4	2.0	10.5	86.9	1830
TOT	5	5	21	97	743	5523	6394
PCT	.1	.1	.3	1.5	11.6	86.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	1.9	7.0	11.1	81.9	799
06&09	.5	2.0	8.3	13.9	77.9	800
12&15	.3	1.2	6.8	16.4	76.9	886
18&21	.0	1.3	8.3	14.0	77.8	895
TOT	10	54	256	470	2654	3380
PCT	.3	1.6	7.6	13.9	78.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	*	*	.0	14	.4
85/89	.0	.0	*	.2	1.0	.5	.3	*	69	2.0
80/84	.0	.0	.0	.1	5.8	17.3	5.0	1.5	1013	29.7
75/79	.0	.0	.0	.2	2.3	29.9	24.7	8.5	2233	65.5
70/74	.0	.0	.0	.0	.0	.1	.6	1.6	77	2.3
65/69	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	1	23	313	1631	1043	396	3407	100.0
PCT	.0	.0	*	.7	9.2	47.9	30.6	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.3	.0	.0	.0	.0	.0	.0
.0	*	.4	1.4	.2	.0	.0	.0	.0	.0
.0	.3	5.9	21.1	2.5	*	.0	.0	.0	.0
*	.5	12.1	45.8	6.9	.2	.0	.0	.0	.0
.0	*	.3	1.4	.5	.0	.0	.0	.0	.0
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
*	.9	18.9	70.0	10.1	.2	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	82	80	78	75	74	69	77.8	1795
06&09	86	82	80	78	75	73	70	77.5	2573
12&15	94	86	83	80	76	74	73	79.7	1987
18&21	93	87	84	79	76	74	72	79.3	2668
TOT	94	85	82	78	75	74	69	78.6	9023

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.4	45.9	37.0	12.7	81	772
06&09	.0	.2	3.5	40.7	40.3	15.3	81	861
12&15	.0	.9	12.0	53.2	24.2	9.7	78	880
18&21	.0	1.6	16.0	50.9	22.1	9.5	77	902
TOT	0	24	314	1631	1045	401	79	3415

PERIOD: (PRIMARY) 1921-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.3	.1	12	.0	.3
9/10	.0	.0	.0	*	.1	.2	.0	11	.0	.3
7/8	.0	.0	.0	.1	.8	.2	.0	37	.0	1.1
6	.0	.0	*	.2	.5	.0	.0	24	.0	.7
5	.0	.0	.3	.8	.6	.0	.0	59	.0	1.7
4	.0	.0	.3	1.5	.3	.0	.0	73	.0	2.1
3	.0	*	.8	2.9	*	.0	.0	131	*	3.8
2	.0	.1	2.9	3.1	*	.0	.0	208	.0	6.0
1	.0	.0	8.2	3.0	.0	.0	.0	390	*	11.2
0	.0	.2	17.9	1.9	.0	.0	.0	692	*	20.0
-1	.0	.7	18.1	.9	.0	.0	.0	683	.0	19.7
-2	.0	1.6	11.7	.5	.0	.0	.0	478	.0	13.8
-3	*	2.7	5.7	.2	.0	.0	.0	301	.0	8.7
-4	.0	2.9	2.5	.1	.0	.0	.0	192	.0	5.5
-5	.0	1.8	1.0	*	.0	.0	.0	96	.0	2.8
-6	.0	1.1	.2	.0	.0	.0	.0	45	.0	1.3
-7/-8	*	.5	.2	.0	.0	.0	.0	24	.0	.7
-9/-10	*	.1	.0	.0	.0	.0	.0	4	.0	.1
-11/-13	*	.0	*	.0	.0	.0	.0	2	.0	.1
TOTAL	4	403	2421	530	78	24	2	3462	3	3459
PCT	.1	11.6	69.9	15.3	2.3	.7	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.3	*	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.3	*	.0	.0	.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	*	.0	.0	.0	*
1-2	.0	1.7	1.6	.0	.0	.0	3.3
3-4	.0	3.0	7.1	.1	.0	.0	10.3
5-6	.0	.7	4.4	*	.0	.0	5.1
7	.0	.2	2.0	.3	.0	.0	2.6
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	15.6	.6	.0	.0	21.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	*	.0	.0	.0	.1
1-2	.0	4.0	3.7	.0	.0	.0	7.8
3-4	.1	5.5	18.4	.6	.0	.0	24.7
5-6	.0	1.4	20.2	1.5	.0	.0	23.1
7	.0	.2	7.5	1.2	.0	.0	8.9
8-9	.0	.0	1.4	1.2	.1	.0	2.7
10-11	.0	.0	.7	.4	.0	.0	1.1
12	.0	.0	.1	.1	.1	.0	.3
13-16	.0	.0	*	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	11.2	52.1	5.2	.2	.0	68.7

PERIOD: (OVER-ALL) 1963-1973

AUGUST

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.2	.0	.0	.0	.5
3-4	.0	.3	2.0	.2	.0	.0	2.5
5-6	.0	.2	2.4	.1	.0	.0	2.7
7	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	6.2	1.0	.0	.0	7.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	*	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	*	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	*	.0	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.0	.1	.0	.0	.0	.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.1	.0	.0	.0	.0	.1	
3-4	*	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.1	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.1	.1	.0	.0	.0	.3	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.1	.1	.0	.0	.0	.1	
1-2	.1	6.3	5.7	.0	.0	.0	12.1	
3-4	.2	9.1	27.7	.9	.0	.0	38.0	
5-6	.0	2.3	27.1	1.6	.0	.0	31.0	
7	.1	.5	10.6	1.9	.0	.0	13.0	
8-9	.0	.1	1.9	1.6	.1	.0	3.7	
10-11	.0	.0	1.1	.5	.0	.0	1.6	
12	.0	.0	.1	.1	.1	.0	.3	
13-16	.0	.0	.1	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	18.3	74.4	6.7	.2	.0	100.0	1544

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	3.2	10.5	9.9	4.3	1.1	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	863	4
6-7	.0	.3	7.0	16.0	10.6	3.2	1.8	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1138	6
8-9	.0	.1	.8	5.1	7.6	4.0	1.9	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	583	7
10-11	.0	.1	.3	.6	.8	.6	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	7
12-13	.0	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.1	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
INDET	.0	.6	2.1	1.4	1.0	.3	.5	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	5
TOTAL	5	127	605	959	715	270	149	41	11	3	0	0	0	0	0	0	0	0	0	2885	6
PCT	.2	4.4	21.0	33.2	24.8	9.4	5.2	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	2.2	4.4	.0	.0	.0	.0	6.6	1.1	.0	.0	.0	2.2		.0	90.1
E	.2	1.2	.3	.0	.0	.0	.0	1.8	1.4	.0	.1	.0	.5		.1	96.1
SE	.4	1.1	.1	.0	.0	.0	.0	1.6	2.6	*	*	.0	.3		*	95.4
S	1.9	.7	.4	.0	.0	.0	.0	3.0	2.6	.0	.0	.0	.0		.0	94.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.4	1.1	.2	.0	.0	.0	.0	1.8	2.2	*	.1	.0	.4		*	95.5
TOT OBS: 3826																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.6	.4	.0	.0	.0	.0	1.2	1.9	.1	.1	.0	.5		.1	96.1
06&09	.5	1.7	.3	.0	.0	.0	.0	2.6	3.4	.0	.0	.0	.1		.0	94.0
12&15	.6	.7	.2	.0	.0	.0	.0	1.5	1.8	.0	.1	.0	.4		.0	96.2
18&21	.4	1.4	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	.6		.0	95.9
TOT PCT	.4	1.1	.2	.0	.0	.0	.0	1.8	2.2	*	.1	.0	.4		*	95.5
TOT OBS: 3841																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	*	.0	.0	.0	.0		*	6.7	.0	.0	*	.1	.1	.0	*	.0
NE	*	.5	.4	.0	.0	.0		.9	10.8	1.1	.7	1.2	.7	1.1	.7	.6	.6
E	.1	8.5	17.8	1.2	.0	.0		27.6	13.4	30.0	27.2	29.3	27.8	29.1	27.3	25.7	24.3
SE	.2	15.6	45.9	4.9	*	.0		66.6	14.3	63.1	67.7	65.2	66.9	64.4	68.0	68.2	70.5
S	*	1.0	3.1	.5	*	.0		4.6	14.9	5.6	4.1	4.1	4.4	5.0	3.8	5.3	4.4
SW	.0	.1	*	.0	.0	.0		.1	9.7	.0	.1	.1	.1	.2	.2	.1	.2
W	*	.0	*	.0	.0	.0		*	7.5	.1	.0	.0	.1	.0	.0	.0	.0
NW	*	.0	.0	.0	.0	.0		*	2.0	.0	.1	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.1	.1	.1	.0	.1	.0	.1	.1
TOT OBS	40	2197	5757	568	3	0	8565		14.1	963	739	1645	786	1029	856	1727	820
TOT PCT	.5	25.7	67.2	6.6	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	*	.0	.0	.0		*	6.7	.0	*	.1	*
NE	.2	.6	.1	.0	.0		.9	10.8	1.0	1.0	.9	.6
E	1.1	19.2	7.3	*	.0		27.6	13.4	28.7	28.8	28.3	25.2
SE	2.3	41.2	22.8	.3	*		66.6	14.3	65.1	65.8	66.0	69.0
S	.2	2.7	1.6	.1	.0		4.6	14.9	5.0	4.2	4.4	5.0
SW	*	.1	*	.0	.0		.1	9.7	*	.1	.2	.1
W	*	*	.0	.0	.0		*	7.5	.1	*	.0	.0
NW	*	.0	.0	.0	.0		*	2.0	.1	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.1	*	.1	.1
TOT OBS	333	5469	2725	37	1	8565		14.1	1702	2431	1885	2547
TOT PCT	3.9	63.9	31.8	.4	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	.4	28.1	64.3	7.0	.1	.0	14.0	100.0	1702
06&09	*	.3	29.3	64.0	6.3	.0	.0	13.7	100.0	2431
12&15	.1	.5	20.7	71.9	6.7	.1	.0	14.5	100.0	1885
18&21	.1	.4	24.1	68.7	6.7	.0	.0	14.1	100.0	2547
TOT	6	34	2197	5757	568	3	0	14.1		8565
PCT	.1	.4	25.7	67.2	6.6	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	*	.0	*	.0		3.7
NE	.7	.2	.2	*		2.4
E	15.0	9.4	4.2	.9		2.7
SE	28.9	22.2	10.6	2.1		3.0
S	1.7	1.7	1.5	.4		3.8
SW	.0	.0	*	.0		7.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.1	.0		7.0
TOT OBS	1483	1073	534	111	3201	2.9
TOT PCT	46.3	33.5	16.7	3.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
NE	.0	.0	.0	.0	.1	*	*	.0	.0	.0	1.1	
E	.1	.0	.1	1.0	1.5	.6	.3	*	.1	.1	25.8	
SE	.1	.2	.2	1.8	3.2	1.7	.7	.3	.1	.1	55.7	
S	.0	.0	.0	.4	.5	.3	.1	*	*	.0	4.0	
SW	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
TOT OBS	5	5	9	102	166	83	34	13	7	4	2773	3201
TOT PCT	.2	.2	.3	3.2	5.2	2.6	1.1	.4	.2	.1	86.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	3.7	4.2	4.4	4.4	4.4	4.4	4.4	4.4
* OR >1000	8.0	9.3	9.5	9.5	9.5	9.5	9.5	9.5
* OR >600	10.5	12.4	12.7	12.7	12.7	12.7	12.7	12.7
* OR >300	10.7	12.7	13.0	13.0	13.0	13.0	13.0	13.0
* OR >150	10.7	12.8	13.1	13.1	13.1	13.1	13.1	13.1
* OR > 0	10.8	13.0	13.2	13.3	13.3	13.3	13.3	13.3
TOTAL	346	414	423	425	425	425	425	425

TOTAL NUMBER OF OBS: 3194

PCT FREQ NH <5/8: 86.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	19.6	24.5	21.9	11.3	4.7	4.2	2.4	2.0	.1	3324

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	*	.3	.6	.1	.0	.0	.0	.0	*	1.1	
	TOT %	.0	*	.4	.7	.1	.0	.0	.0	.0	*	1.2	
	PCP	.0	*	.3	.5	*	.0	.0	.0	.0	.0	.9	
5<10	NO PCP	.0	*	2.1	4.4	.6	*	.0	.0	.0	*	7.2	
	TOT %	.0	.1	2.4	5.0	.6	*	.0	.0	.0	*	8.1	
	PCP	.0	*	.2	.4	.1	.0	.0	.0	.0	.0	.7	
10+	NO PCP	.1	1.0	26.3	57.6	4.4	.1	.1	.0	.0	.1	89.6	
	TOT %	.1	1.1	26.5	58.0	4.5	.1	.1	.0	.0	.1	90.4	
	TOT OBS												3822
	TOT PCT	.1	1.2	29.4	63.8	5.3	.1	.1	.0	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
2<5	4-10	.0	.0	*	.3	.1	*	.0	.0	.0		.4	
	11-21	.0	*	.2	.3	*	.0	.0	.0	.0		.6	
	22+	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	*	.3	.6	.1	*	.0	.0	.0	*	1.1	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
5<10	4-10	.0	*	.8	.9	.2	.0	.0	.0	.0		1.9	
	11-21	.0	*	1.3	3.4	.4	*	.0	.0	.0		5.1	
	22+	.0	.0	.1	.6	.1	.0	.0	.0	.0		.8	
	TOT %	.0	.1	2.2	4.9	.7	*	.0	.0	.0	*	7.9	
	0-3	.0	*	*	.2	*	.0	*	.0	.0	*	.3	
10+	4-10	*	.4	7.3	13.8	.8	.1	.0	.0	.0		22.4	
	11-21	.0	.3	16.7	42.3	3.1	*	*	.0	.0		62.4	
	22+	.0	.0	1.0	4.1	.5	.0	.0	.0	.0		5.6	
	TOT %	*	.7	25.0	60.4	4.4	.1	*	.0	.0	*	90.7	
	TOT OBS												6175
	TOT PCT	*	.8	27.6	66.1	5.2	.1	*	.0	.0	.1	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.1	2.3	4.2	1.5	.4	.3	.3	.0	9.1	90.9	781
06&09	.5	.1	.4	3.9	5.9	3.3	.4	.5	.1	.3	15.3	84.7	799
12&15	.1	.2	.5	3.4	5.6	3.1	2.0	.5	.2	.1	15.7	84.3	861
18&21	.0	.2	.1	2.9	4.4	2.1	1.4	.3	.2	.1	11.7	88.3	870
TOT	5	5	9	103	166	83	35	13	7	4	430	2881	3311
PCT	.2	.2	.3	3.1	5.0	2.5	1.1	.4	.2	.1	13.0	87.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.0	1.2	7.9	90.8	1296
06&09	.0	.2	.2	.8	9.5	89.3	1660
12&15	.1	.0	.1	1.2	6.2	92.5	1448
18&21	.0	.1	.4	1.2	7.9	90.4	1787
TOT	2	4	12	67	491	5615	6191
PCT	*	.1	.2	1.1	7.9	90.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.1	3.1	6.9	90.0	743
06&09	.5	1.2	5.7	10.3	84.0	774
12&15	.1	.8	5.5	11.2	83.3	839
18&21	.0	.4	4.2	8.7	87.1	838
TOT	5	20	148	298	2748	3194
PCT	.2	.6	4.6	9.3	86.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.5	.1	.0	.0	27	.9
85/89	.0	.0	*	.1	1.0	1.3	.2	*	85	2.7
80/84	.0	.0	*	.3	6.0	17.5	5.1	2.0	975	30.9
75/79	.0	.0	.0	.0	.9	33.4	24.3	6.0	2037	64.5
70/74	.0	.0	.0	.0	.0	.0	.4	.6	33	1.0
TOTAL	0	0	2	19	265	1653	946	272	3157	100.0
PCT	.0	.0	.1	.6	8.4	52.4	30.0	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.2	.5	.1	.0	.0	.0	.0	.0
.0	.1	.9	1.7	*	.0	.0	.0	.0	.0
*	.3	8.5	20.6	1.4	.1	.0	.0	.0	*
*	.8	19.9	40.3	3.3	.0	.1	.0	.0	.0
.0	*	.2	.5	.2	*	.0	.0	.0	.0
.1	1.2	29.8	63.7	5.0	.1	.1	.0	.0	*

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	82	80	78	76	74	66	77.9	1677
06&09	94	82	80	78	76	74	69	77.7	2391
12&15	94	87	84	80	77	75	72	80.0	1829
18&21	94	89	84	79	77	75	70	79.6	2477
TOT	94	86	82	78	76	74	66	78.8	8374

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.8	52.8	35.3	10.1	80	716
06&09	.0	.4	2.4	44.7	41.4	11.2	81	806
12&15	.0	.6	13.8	56.0	22.3	7.3	77	804
18&21	.0	1.6	14.7	55.5	22.0	6.3	77	838
TOT	0	21	266	1653	950	274	79	3164

SEPTEMBER

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	6	.0	.2
11/13	.0	.0	.0	*	*	.1	.4	.1	19	.0	.6
9/10	.0	.0	.0	*	*	.4	.4	.0	28	.0	.8
7/8	.0	.0	.0	.1	.2	1.0	.1	.0	46	.0	1.4
6	.0	.0	.1	.1	.5	.6	*	.0	41	.0	1.2
5	.0	.0	.0	.1	.8	.5	.0	.0	46	.0	1.4
4	.0	.0	*	.3	1.7	*	.0	.0	69	.0	2.1
3	.0	.0	.0	.8	3.6	.1	.0	.0	147	.0	4.4
2	.0	.0	.0	3.5	4.3	.1	.0	.0	260	.0	7.8
1	.0	.0	*	9.5	2.7	*	.0	.0	406	.0	12.2
0	.0	.0	.1	20.0	1.7	.0	.0	.0	724	.0	21.8
-1	.0	.0	.9	17.9	.8	.0	.0	.0	648	.0	19.5
-2	.0	.0	1.3	10.9	.3	.0	.0	.0	415	.0	12.5
-3	.0	.0	1.4	5.3	.2	.0	.0	.0	228	.0	6.9
-4	.0	.0	1.6	1.9	*	.0	.0	.0	119	.0	3.6
-5	.0	.0	1.0	1.0	.0	.0	.0	.0	65	.0	2.0
-6	.0	*	.5	.3	.0	.0	.0	.0	30	.0	.9
-7/-8	.0	.1	.2	.2	.0	.0	.0	.0	17	.0	.5
-9/-10	.0	.1	*	.1	.0	.0	.0	.0	5	.0	.2
-11/-13	*	.1	.0	.0	.0	.0	.0	.0	4	*	.1
TOTAL	1		236		560		30			1	3322
		8		2390		92		6	3323		
PCT	*	.2	7.1	71.9	16.9	2.8	.9	.2	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.5	.0	.0	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.7
1-2	.0	3.6	3.2	.0	.0	.0	6.8
3-4	.0	3.3	7.5	.4	.0	.0	11.3
5-6	.0	1.7	8.6	.4	.0	.0	10.6
7	.1	.1	3.1	.9	.0	.0	4.1
8-9	.0	.3	.6	.7	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	9.5	23.3	2.3	.0	.0	35.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.1	.0	.0	.0	.4
1-2	.0	5.0	2.8	.0	.0	.0	7.8
3-4	.1	3.2	15.1	1.1	.0	.0	19.5
5-6	.0	1.5	15.1	1.2	.0	.0	17.8
7	.2	.7	7.3	1.5	.0	.0	9.6
8-9	.0	.2	2.2	1.5	.0	.0	3.9
10-11	.0	.0	.3	.4	.1	.0	.8
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	.1	.1	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	11.0	43.0	5.7	.1	.0	60.1

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0005 NATAL 4.4S 33.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	1.3	.1	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.7	.5	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	2.8	.8	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.9	.2	.0	.0	.0	1.1	
1-2	.0	8.8	6.3	.0	.0	.0	15.1	
3-4	.1	6.9	24.0	1.6	.0	.0	32.5	
5-6	.0	3.2	24.6	2.0	.0	.0	29.8	
7	.2	.8	10.9	2.4	.0	.0	14.3	
8-9	.0	.5	2.9	2.3	.0	.0	5.7	
10-11	.0	.0	.5	.4	.1	.0	.9	
12	.0	.1	.1	.1	.0	.0	.2	
13-16	.0	.1	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	21.2	69.6	8.8	.1	.0	100.0	1270

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	4.2	13.4	9.2	5.0	1.5	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	900	4
6-7	.2	.4	7.2	17.3	9.2	3.2	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1030	6
8-9	.0	.0	1.1	4.5	5.9	3.1	1.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	421	7
10-11	.0	.0	.2	1.0	1.2	1.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
12-13	.0	.0	.2	.1	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
>13	.0	.0	.0	.2	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDET	.3	.6	1.8	1.5	.6	.6	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	4
TOTAL	17	140	630	892	583	259	78	22	17	2	0	0	0	0	0	0	0	0	0	2640	5
PCT	.6	5.3	23.9	33.8	22.1	9.8	3.0	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0	87.9
NE	.2	.0	.2	.0	.0	.0	.0	.4	2.4	.8	1.2	.0	.0	.0	.0	95.3
E	.3	.3	.1	.0	.0	.0	.0	.6	1.0	.1	.4	.0	.0	*	*	97.8
SE	.4	1.0	.1	.0	.0	.0	.0	1.5	1.6	.1	.2	.0	.1	*	*	96.5
S	.9	1.8	.0	.0	.0	.0	.0	2.8	4.6	.0	.0	.0	.0	.7	.0	91.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.3	.7	.1	.0	.0	.0	.0	1.2	1.5	.1	.3	.0	*	*	*	96.9
TOT OBS:	4170															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	1.0	.4	.0	.0	.0	.0	1.7	.7	.3	.0	.0	.1	.0	.0	97.2
06&09	.4	1.0	.1	.0	.0	.0	.0	1.5	3.2	.0	.5	.0	.0	.0	.0	94.9
12&15	.1	.3	.0	.0	.0	.0	.0	.4	1.1	.0	.3	.0	.0	.1	.0	98.1
18&21	.5	.5	.0	.0	.0	.0	.0	1.1	1.0	.1	.5	.0	.1	.0	.0	97.3
TOT PCT	.3	.7	.1	.0	.0	.0	.0	1.1	1.5	.1	.3	.0	*	*	*	96.9
TOT OBS:	4179															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	*	.1	.0	.0	.0		.2	9.7	.3	.1	.2	.3	.1	.1	.1	.2
NE	.1	1.5	1.3	*	.0	.0		2.9	10.7	2.5	2.8	3.3	3.0	3.6	3.3	2.2	2.8
E	.2	14.1	21.8	1.2	.0	.0		37.3	12.5	38.8	37.5	37.9	36.2	41.2	35.8	35.1	36.7
SE	.1	15.3	38.5	3.3	*	.0		57.3	13.9	55.5	56.7	56.0	58.5	52.7	59.0	60.6	57.8
S	*	.8	1.2	.2	.0	.0		2.2	13.0	2.7	2.7	2.4	2.0	2.3	1.7	2.0	2.3
SW	.0	*	.1	.0	.0	.0		.1	12.1	.0	.1	.1	.0	.0	.0	.1	.2
W	.0	*	*	.0	.0	.0		*	10.8	.0	.1	.1	.1	.0	.0	.0	.0
NW	.0	.0	*	.0	.0	.0		*	18.0	.0	.1	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.2	.0	.1	.0	.1	.0	.0	.0
TOT OBS	46	2997	5914	440	4	0	9401		13.2	1091	810	1745	881	1067	1042	1860	905
TOT PCT	.5	31.9	62.9	4.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	*	.0	.0		.2	9.7	.2	.2	.1	.2
NE	.5	2.1	.3	.0	.0		2.9	10.7	2.6	3.2	3.4	2.4
E	2.6	27.6	7.0	.1	.0		37.3	12.5	38.2	37.3	38.5	35.6
SE	2.2	37.5	17.2	.3	.0		57.3	13.9	56.[illegible]	56.8	55.8	59.7
S	.2	1.5	.5	*	.0		2.2	13.0	2.7	2.3	2.0	2.1
SW	*	*	*	.0	.0		.1	12.1	.1	*	.0	.1
W	.0	*	*	.0	.0		*	10.8	*	.1	.0	.0
NW	.0	.0	*	.0	.0		*	18.0	*	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.1	*	*	.0
TOT OBS	527	6470	2363	41	0	9401		13.2	1901	2626	2109	2765
TOT PCT	5.6	68.8	25.1	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	.4	34.0	60.5	5.0	.1	.0	13.2	100.0	1901
06&09	*	.5	33.5	61.1	4.9	.0	.0	13.1	100.0	2626
12&15	*	.4	27.3	67.0	5.2	.1	.0	13.7	100.0	2109
18&21	.0	.5	32.4	63.2	3.9	*	.0	13.1	100.0	2765
TOT	4	42	2997	5914	440	4	0	13.2		9401
PCT	*	.4	31.9	62.9	4.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.1	.0		3.1
NE	1.4	1.1	.4	.1		2.8
E	20.2	13.1	5.3	.8		2.7
SE	24.4	19.4	9.8	1.1		2.9
S	1.1	.7	.6	.1		3.3
SW	.0	.0	.0	.0		.0
W	*	*	.0	.0		2.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.0	.0		1.7
TOT OBS	1658	1200	567	75	3500	2.8
TOT PCT	47.4	34.3	16.2	2.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.2	
NE	.0	*	.0	*	.1	*	*	*	.0	.0	2.8	
E	.0	.0	.1	.8	1.6	1.0	.2	.1	.0	.0	35.5	
SE	.1	.0	.1	1.4	2.6	1.3	1.1	.1	.1	.1	47.9	
S	.0	*	*	.1	.2	.1	.1	.1	.0	.0	1.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	3	2	9	80	161	86	51	12	2	2	3092	3500
TOT PCT	.1	.1	.3	2.3	4.6	2.5	1.5	.3	.1	.1	88.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
= OR >5000	.4	.4	.5	.5	.5	.5	.5	.5
= OR >3500	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	3.9	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >1000	8.1	8.7	8.8	8.9	8.9	8.9	8.9	8.9
= OR >600	10.0	11.0	11.1	11.2	11.2	11.2	11.2	11.2
= OR >300	10.3	11.2	11.4	11.4	11.4	11.4	11.4	11.4
= OR >150	10.3	11.2	11.4	11.5	11.5	11.5	11.5	11.5
= OR > 0	10.4	11.3	11.5	11.5	11.6	11.6	11.6	11.6
TOTAL	362	395	401	403	404	404	405	405

TOTAL NUMBER OF OBS: 3496

PCT FREQ NH <5/8: 88.4

TABLE 7A

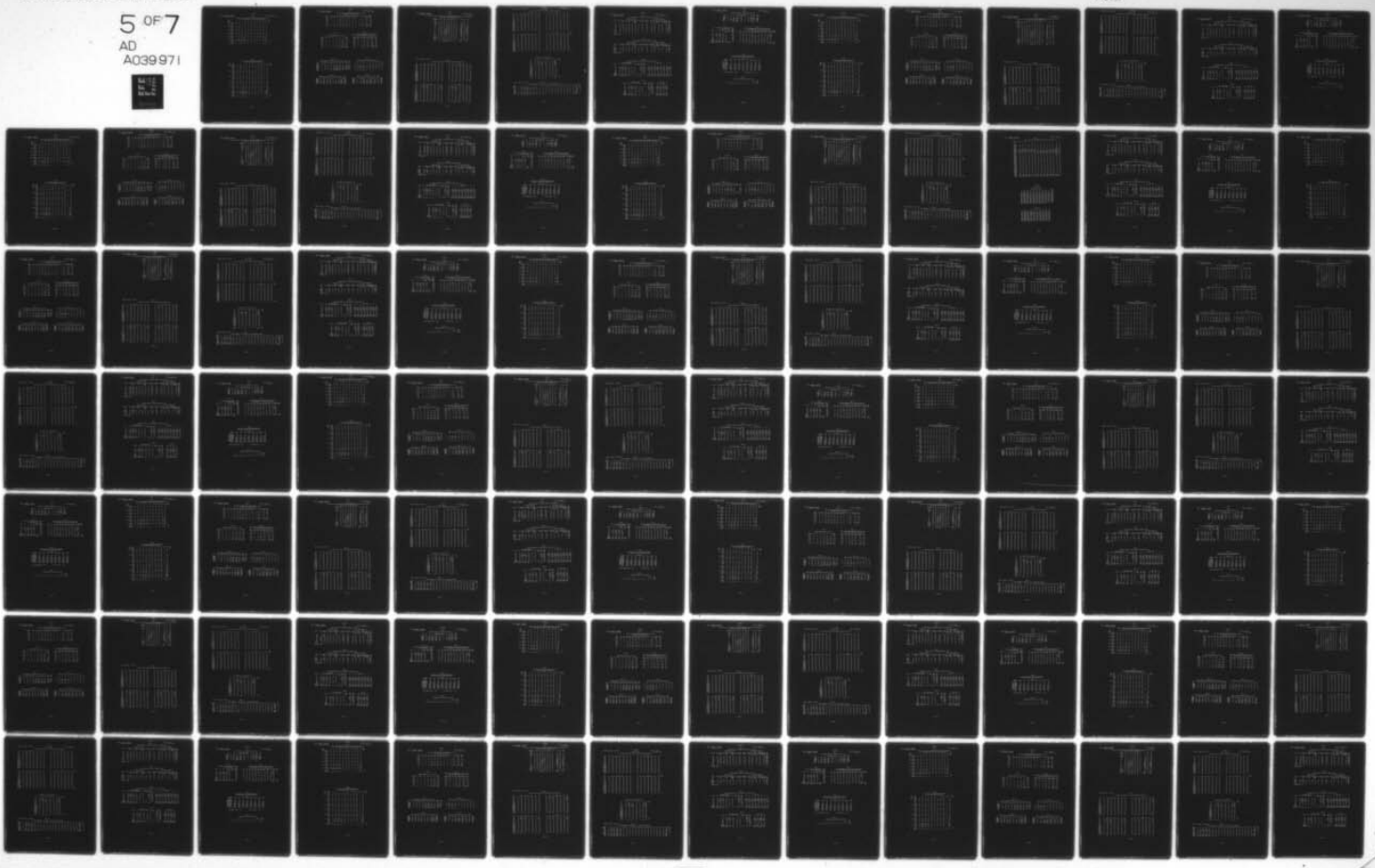
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.4	22.0	25.8	21.5	10.6	4.9	3.4	2.0	1.4 *	3651

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	.1	.3	.2	.2	.0	*	.0	.0	.0	.8	
	TOT %	.0	.1	.3	.3	.2	.0	*	.0	.0	.0	.9	
	PCP	.0	*	.1	.2	*	.0	.0	.0	.0	.0	.4	
5<10	NO PCP	*	.2	2.7	3.4	.4	*	.0	.0	.0	.0	6.8	
	TOT %	*	.2	2.8	3.6	.4	*	.0	.0	.0	.0	7.1	
	PCP	.0	*	.2	.4	*	.0	.0	.0	.0	.0	.6	
10+	NO PCP	.1	2.8	36.0	50.3	2.0	.0	.0	.0	.0	.1	91.2	
	TOT %	.1	2.8	36.1	50.7	2.0	.0	.0	.0	.0	.1	91.8	
	TOT OBS												4167
	TOT PCT	.2	3.0	39.3	54.7	2.6	*	*	.0	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	.1	.1	.1	*	.0	*	.0	.0		.3	
	11-21	.0	.0	.2	.3	.1	.0	.0	.0	.0		.5	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.1	.3	.4	.1	.0	*	.0	.0	.0	.9	
	0-3	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
5<10	4-10	.0	.1	.8	1.0	.2	.0	.0	.0	.0		2.1	
	11-21	*	*	1.5	2.4	.1	*	*	*	.0		4.2	
	22+	.0	.0	.2	.3	.1	.0	.0	.0	.0		.5	
	TOT %	*	.2	2.5	3.7	.4	*	*	*	.0	.0	6.9	
	0-3	*	.1	.2	.1	*	.0	.0	.0	.0	.1	.5	
10+	4-10	.1	1.3	13.2	13.7	.7	*	.0	.0	.0		28.9	
	11-21	.1	1.0	20.9	35.8	1.0	.0	.0	.0	.0		58.8	
	22+	.0	*	1.0	2.6	.1	.0	.0	.0	.0		3.7	
	TOT %	.2	2.5	35.3	52.2	1.9	*	.0	.0	.0	.1	92.0	
	TOT OBS												6364
	TOT PCT	.2	2.7	38.2	56.4	2.4	*	*	*	.0	.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.1	.2	2.2	4.4	2.3	1.0	.3	.0	.0	10.5	89.5	916
06&09	.0	.0	.6	2.7	4.6	2.1	1.6	.7	.0	.1	12.4	87.6	856
12&15	.1	.1	.1	1.7	4.5	2.7	1.7	.2	.1	.1	11.4	88.6	920
18&21	.2	.0	.1	2.2	4.4	2.3	1.4	.1	.1	.0	10.9	89.1	939
TOT	3	2	9	80	161	86	52	12	2	2	409	3222	3631
PCT	.1	.1	.2	2.2	4.4	2.4	1.4	.3	.1	.1	11.3	88.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.1	.1	1.3	7.4	91.1	1412
06&09	.0	.0	.1	.9	8.1	91.0	1670
12&15	.1	.0	.0	.4	4.8	94.8	1490
18&21	.1	.1	.2	1.2	7.1	91.3	1801
TOT	3	2	6	60	439	5863	6373
PCT	*	*	.1	.9	6.9	92.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.5	3.9	7.6	88.5	882
06&09	.0	.6	4.6	9.3	86.1	818
12&15	.1	.3	2.4	9.5	88.1	892
18&21	.2	.3	3.1	8.5	88.4	904
TOT	3	15	121	305	3070	3496
PCT	.1	.4	3.5	8.7	87.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	*	.1	.0	.0	5	.1
90/94	.0	.0	.0	.2	.4	.1	*	.0	22	.6
85/89	.0	.0	.0	.2	1.0	1.7	.3	.2	123	3.5
80/84	.0	.0	.0	.1	5.1	22.9	7.3	2.3	1330	37.7
75/79	.0	.0	.0	.0	.7	29.1	23.1	4.8	2032	57.6
70/74	.0	.0	.0	.0	*	.0	*	.3	13	.4
TOTAL	0	0	0	18	255	1897	1087	268	3525	100.0
PCT	.0	.0	.0	.5	7.2	53.8	30.8	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
.0	.0	.3	.3	*	.0	.0	.0	.0	.0
*	*	1.6	1.8	.1	.0	.0	.0	.0	.0
.1	1.1	14.5	21.1	.9	.0	.0	.0	.0	.1
.1	2.0	22.7	31.4	1.5	.0	.0	.0	.0	.1
.0	.0	.1	.2	.1	.0	.0	.0	.0	.0
.2	3.1	39.3	54.8	2.5	.0	.0	.0	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	82	80	78	77	75	70	78.3	1893
06&09	86	82	81	78	76	75	68	78.1	2612
12&15	92	87	84	80	78	76	66	80.6	2074
18&21	96	89	85	80	77	76	70	80.1	2705
TOT	96	86	83	79	77	75	66	79.3	9284

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	1.5	49.1	40.3	9.0	81	862
06&09	.0	.0	1.4	44.8	43.9	10.0	81	873
12&15	.0	.5	14.2	60.4	19.1	5.8	77	874
18&21	.0	1.4	11.6	60.5	20.8	5.7	77	917
TOT	0	18	255	1897	1088	268	79	3526

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.1	5	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.3	.1	18	.0	.5
9/10	.0	.0	.0	*	*	.2	.3	.0	23	.0	.6
7/8	.0	.0	*	.1	.2	.9	.1	.0	44	.0	1.2
6	.0	.0	.0	*	.5	.8	*	.0	49	.0	1.3
5	.0	.0	.0	.2	.9	.7	.0	.0	65	.0	1.8
4	.0	.0	*	.2	1.9	.5	.0	.0	95	.0	2.6
3	.0	.0	.0	.4	2.9	.2	.0	.0	127	*	3.5
2	.0	.0	*	2.0	4.9	.1	.0	.0	254	*	6.9
1	.0	.0	*	8.6	4.4	*	.0	.0	476	*	13.0
0	.0	.0	.1	19.2	2.7	.0	.0	.0	802	.2	21.8
-1	.0	.0	.4	18.3	1.0	.0	.0	.0	717	.1	19.6
-2	.0	.0	.7	12.0	.5	.0	.0	.0	480	.0	13.2
-3	.0	.0	.8	5.8	.1	*	.0	.0	246	.0	6.8
-4	.0	.0	.8	3.0	.1	.0	.0	.0	143	.0	3.9
-5	.0	*	.4	1.0	*	.0	.0	.0	50	.0	1.4
-6	.0	*	.4	.2	.1	.0	.0	.0	22	.0	.6
-7/-8	.0	*	.2	*	*	.0	.0	.0	11	.0	.3
-9/-10	.0	.1	.0	.2	.0	.0	.0	.0	8	.0	.2
-11/-13	.1	.1	.0	.1	.0	.0	.0	.0	6	.0	.2
TOTAL	2	7	140	2592	735	128	29	10	3643	13	3630
PCT	.1	.2	3.8	71.2	20.2	3.5	.8	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.2	.0	.0	.0	.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	*	.8	.3	.0	.0	.0	1.2
3-4	.0	.4	.6	.1	.0	.0	1.1
5-6	.0	.1	.5	.0	.0	.0	.7
7	.0	.4	*	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.8	1.5	.1	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	8.2	2.7	.0	.0	.0	10.9
3-4	.1	6.2	11.4	.3	.0	.0	18.0
5-6	.0	1.0	8.0	.6	.0	.0	9.6
7	.0	.2	3.0	.6	.0	.0	3.8
8-9	.0	.0	.5	.1	.0	.0	.6
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	15.9	25.7	1.7	.0	.0	43.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.1	.0	.0	.0	.4
1-2	.1	4.4	2.8	.0	.0	.0	7.2
3-4	*	3.9	13.2	.6	.0	.0	17.7
5-6	.0	1.0	14.3	.7	.0	.0	16.0
7	.0	.3	5.7	1.4	.0	.0	7.5
8-9	.0	.2	.8	.4	.0	.0	1.4
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	10.2	36.9	3.2	.0	.0	50.3

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0005 NATAL

TABLE 18 (CONT) 4.4S 33.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.2	.0	.0	.0	.5
3-4	.0	.4	.8	.1	.0	.0	1.3
5-6	.0	.1	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	1.5	.1	.0	.0	2.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	.6	.1	.0	.0	.0	1.0	
1-2	.1	13.6	6.0	.0	.0	.0	19.7	
3-4	.1	10.9	26.1	1.0	.0	.0	38.2	
5-6	.0	2.2	23.4	1.3	.0	.0	26.9	
7	.0	1.0	8.8	2.0	.0	.0	11.8	
8-9	.0	.2	1.4	.5	.0	.0	2.1	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1438
TOT PCT	.6	28.6	65.8	5.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	5.9	16.2	10.3	4.0	.5	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1111	4
6-7	.0	.7	8.4	16.6	8.1	1.8	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1079	5
8-9	.0	.2	1.7	4.8	4.9	2.0	.8	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	435	6
10-11	.0	.2	.3	.6	.8	.8	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
12-13	.0	.0	.4	.2	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
>13	.0	.0	.0	.2	.1	.1	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	18	8
INDET	.3	1.2	2.2	1.2	1.2	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
TOTAL	23	240	860	1001	575	169	55	17	9	0	1	0	0	0	0	0	0	0	0	2950	5
PCT	.8	8.1	29.2	33.9	19.5	5.7	1.9	.6	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	1.0	1.2	.6	.0	.0	.0	.0	2.9	1.4	.0	.5	.0	.5	.0	.0	94.7
E	.1	.8	.1	.0	.0	.0	.0	1.0	.8	.1	.5	.0	.1	.0	.0	97.5
SE	.2	.9	*	.0	.0	.0	.0	1.1	1.3	.0	.5	.0	.1	.1	.0	97.0
S	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	98.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	.9	.1	.0	.0	.0	.0	1.1	1.1	*	.5	.0	.1	*		97.1
TOT OBS:	3941															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.4	.3	.2	.0	.0	.0	.0	1.0	.9	.0	.2	.0	.1	.1	97.7	
06609	.2	1.4	.1	.0	.0	.0	.0	1.7	1.6	.1	.5	.0	.1	.0	95.9	
12615	.2	.9	.0	.0	.0	.0	.0	1.1	.5	.0	.6	.0	.1	.0	97.7	
18621	.0	.8	.1	.0	.0	.0	.0	.9	1.3	.0	.6	.0	.1	.0	97.1	
TOT PCT	.2	.9	.1	.0	.0	.0	.0	1.2	1.1	*	.5	.0	.1	*	97.1	
TOT OBS:	3949															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	.1	.0	.0	.0		.2	10.4	.2	.2	.2	.1	.2	.0	.2	.2
NE	.1	1.9	1.4	*	.0	.0		3.5	10.7	5.5	2.5	3.9	2.9	4.2	2.5	3.2	2.7
E	.2	17.6	23.1	1.1	.0	.0		42.1	12.2	46.3	39.1	43.8	40.4	48.1	40.0	41.3	35.8
SE	.1	16.0	34.2	2.7	*	.0		52.9	13.4	46.3	56.6	50.6	55.5	46.3	56.3	54.0	59.5
S	.0	.4	.9	.1	.0	.0		1.3	13.7	1.6	1.6	1.5	1.1	.8	1.2	1.2	1.6
SW	.0	*	*	.0	.0	.0		*	13.5	.0	.1	.0	.0	*	.0	.1	.1
W	.0	*	*	.0	.0	.0		*	11.3	.1	.0	.0	.0	*	.0	.0	.0
NW	*	.0	.0	.0	.0	.0		*	3.0	.0	.0	.0	.0	.1	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*							*	.0	.1	.0	.0	.0	.1	.0	.1	.0
TOT OBS	40	3417	5676	373	1	0	9507		12.8	995	831	1770	916	1014	1212	1857	912
TOT PCT	.4	35.9	59.7	3.9	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	.1	*	.0	.0		.2	10.4	.2	.1	.1	.2
NE	.5	2.7	.3	*	.0		3.5	10.7	4.1	3.5	3.3	3.0
E	3.1	31.5	7.4	.1	.0		42.1	12.2	43.0	42.7	43.7	39.5
SE	2.0	36.9	13.7	.3	.0		52.9	13.4	51.0	52.3	51.7	55.8
S	.1	.8	.4	.0	.0		1.3	13.7	1.6	1.3	1.0	1.4
SW	*	*	*	.0	.0		*	13.5	*	.0	*	.1
W	*	*	.0	.0	.0		*	11.3	.1	.0	*	.0
NW	*	.0	.0	.0	.0		*	3.0	.0	.0	*	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	*						*	.0	.1	.0	*	*
TOT OBS	546	6853	2074	34	0	9507		12.8	1826	2686	2226	2769
TOT PCT	5.7	72.1	21.8	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	.4	40.7	54.9	3.8	.0	.0	12.4	100.0	1826
06&09	.0	.4	38.5	57.4	3.7	.0	.0	12.6	100.0	2686
12&15	*	.2	29.4	65.6	4.7	*	.0	13.5	100.0	2226
18&21	*	.5	35.5	60.3	3.6	.0	.0	12.7	100.0	2769
TOT	3	37	3417	5676	373	1	0	12.8		9507
PCT	*	.4	35.9	59.7	3.9	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	*	*		2.5
NE	2.1	1.6	.9	.1		3.1
E	23.1	16.6	7.1	.7		2.8
SE	20.9	16.8	7.3	1.2		3.0
S	.5	.4	.2	.1		3.4
SW	*	*	.0	.0		2.3
W	*	*	.0	.0		2.3
NW	*	.0	.0	.0		2.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.0	.0		.0
TOT OBS	1575	1193	523	71	3362	2.9
TOT PCT	46.8	35.5	15.6	2.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.3	.4	.1	*	.0	.0	.0	4.1	
E	.0	.0	.1	.7	1.5	.9	.3	.3	*	*	43.6	
SE	.0	.0	.1	.8	2.0	1.0	.3	.4	*	.0	41.3	
S	.0	.0	*	.0	.1	.1	*	*	.0	.0	1.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	0	0	9	61	132	70	23	23	2	1	3041	3362
TOT PCT	.0	.0	.3	1.8	3.9	2.1	.7	.7	.1	*	90.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >2000	3.4	3.5	3.6	3.6	3.6	3.6	3.6	3.6
* OR >1000	7.1	7.3	7.3	7.3	7.3	7.3	7.3	7.3
* OR >600	8.7	9.2	9.3	9.3	9.3	9.3	9.3	9.3
* OR >300	8.9	9.5	9.5	9.6	9.6	9.6	9.6	9.6
* OR >150	8.9	9.5	9.5	9.6	9.6	9.6	9.6	9.6
* OR > 0	8.9	9.5	9.5	9.6	9.6	9.6	9.6	9.6
TOTAL	299	318	320	321	321	321	321	321

TOTAL NUMBER OF OBS: 3356

PCT FREQ NH <5/8: 90.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	21.9	29.5	21.1	10.8	4.3	3.2	1.4	.9	.0	3501

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	NO PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	*	.3	.2	.0	.0	.0	.0	.0	.0	.5	
5<10	NO PCP	*	.2	2.7	2.7	.2	*	.0	.0	.0	.0	5.8	
	TOT %	*	.3	3.0	2.9	.2	*	.0	.0	.0	.0	6.4	
	PCP	.0	.1	.2	.3	.0	.0	.0	.0	.0	.0	.6	
10+	NO PCP	.2	4.5	44.0	42.9	1.0	*	*	*	.0	.1	92.7	
	TOT %	.2	4.6	44.2	43.2	1.0	*	*	*	.0	.1	93.3	
	TOT OBS												3930
	TOT PCT	.2	4.9	47.3	46.2	1.2	*	*	*	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
5<10	4-10	*	.1	1.1	.8	.1	.0	.0	.0	.0		2.1	
	11-21	*	.1	1.5	1.8	.1	*	.0	.0	.0		3.5	
	22+	.0	*	*	.1	.0	.0	.0	.0	.0		.2	
	TOT %	*	.2	2.6	2.7	.2	*	.0	.0	.0	.0	5.8	
	0-3	*	.1	.2	.1	.0	.0	.0	*	.0	*	.5	
10+	4-10	*	2.1	17.7	14.6	.4	*	*	.0	.0		34.9	
	11-21	.1	1.4	23.2	30.3	.5	*	*	.0	.0		55.5	
	22+	.0	*	.9	1.8	*	.0	.0	.0	.0		2.8	
	TOT %	.1	3.6	42.0	46.8	.9	*	*	*	.0	*	93.7	
	TOT OBS												6062
	TOT PCT	.2	3.9	44.9	49.8	1.1	*	*	*	.0	*	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.1	1.0	2.9	1.7	1.1	.2	.1	.0	7.0	93.0	839
06&09	.0	.0	.2	2.1	4.6	1.2	.7	1.2	.0	.1	10.1	89.9	828
12&15	.0	.0	.4	1.9	3.1	2.8	.4	.2	.1	.0	9.1	90.9	890
18&21	.0	.0	.2	2.1	4.5	2.4	.4	1.0	.0	.0	10.6	89.4	925
TOT	0	0	9	61	132	71	23	23	2	1	322	3160	3482
PCT	.0	.0	.3	1.8	3.8	2.0	.7	.7	.1	*	9.2	90.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.5	6.3	93.3	1312
06&09	.0	.0	.0	.2	6.6	93.2	1613
12&15	.1	.0	.0	.5	5.3	94.2	1424
18&21	.1	.1	.2	.3	5.2	94.0	1721
TOT	2	2	4	23	353	5686	6070
PCT	*	*	.1	.4	5.8	93.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.1	1.4	6.1	92.6	809
06&09	.0	.3	2.4	8.1	89.5	799
12&15	.0	.5	2.4	7.0	90.6	860
18&21	.0	.2	2.4	8.7	89.0	888
TOT	0	9	72	251	3033	3356
PCT	.0	.3	2.1	7.5	90.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.1	.0	.0	.0	.0	3	.1
90/94	.0	.0	.0	.2	.4	.1	.0	.0	25	.7
85/89	.0	.0	.0	.1	1.3	2.0	.6	.1	136	4.1
80/84	.0	.0	.0	.2	4.0	28.7	11.1	3.1	1579	47.1
75/79	.0	.0	.0	*	.6	19.6	22.5	5.1	1605	47.9
70/74	.0	.0	.0	.0	.0	.0	.1	.1	6	.2
TOTAL	0	0	1	21	209	1690	1150	283	3354	100.0
PCT	.0	.0	*	.6	6.2	50.4	34.3	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
	.0	*	.4	.3	.0	.0	.0	.0	.0	.0
	*	.1	2.3	1.6	*	.0	.0	.0	.0	.0
	.1	1.8	22.0	22.6	.5	*	.0	*	.0	*
	.1	2.4	21.8	22.9	.7	.0	*	.0	.0	.0
	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
	.2	4.4	46.7	47.3	1.2	*	*	*	.0	*

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	82	81	79	77	75	64	78.7	1817
06&09	89	83	81	78	77	75	64	78.6	2652
12&15	93	88	85	81	78	77	74	81.0	2163
18&21	98	89	85	80	78	76	70	80.5	2692
TOT	98	87	84	79	77	76	64	79.7	9324

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.3	43.3	47.7	7.7	81	780
06&09	.0	.1	1.7	39.0	45.9	13.3	82	843
12&15	.0	.8	8.4	62.1	22.4	6.2	77	853
18&21	.0	1.7	12.9	55.9	22.9	6.7	77	886
TOT	0	23	210	1692	1153	284	79	3362

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.1	*	3	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.3	21	.0	.6
9/10	.0	.0	.0	.0	.0	*	.1	.4	.0	18	.0	.5
7/8	.0	.0	.0	.0	.0	.2	.8	.2	.0	43	.0	1.2
6	.0	.0	.0	.0	.1	.1	.9	.1	.0	39	.0	1.1
5	.0	.0	.0	.0	*	.8	1.1	.0	.0	69	.0	2.0
4	.0	.0	.0	.0	.4	2.0	.7	.0	.0	112	*	3.1
3	.0	.0	.0	*	.7	3.1	.2	.0	.0	143	*	4.0
2	.0	.0	.0	.0	1.6	5.4	.1	.0	.0	249	.1	7.0
1	.0	.0	.0	.0	4.7	6.4	.1	.0	.0	397	.1	11.1
0	.0	.0	.0	*	17.7	4.9	*	.0	.0	799	.1	22.5
-1	.0	.0	.0	.1	17.8	1.8	.0	.0	.0	693	.1	19.5
-2	.0	.0	.0	.2	11.8	.9	.0	.0	.0	454	*	12.8
-3	.0	.0	.0	.4	6.4	.3	.0	.0	.0	252	.0	7.1
-4	.0	.0	.0	.6	3.3	.1	.0	.0	.0	142	.0	4.0
-5	.0	.0	.0	.3	1.3	.0	.0	.0	.0	56	.0	1.6
-6	.0	.0	.0	.2	.2	*	.0	.0	.0	15	.0	.4
-7/-8	.0	.0	.0	.3	.1	.0	.0	.0	.0	13	.0	.4
-9/-10	.0	.0	*	.1	*	.0	.0	.0	.0	4	.0	.1
-11/-13	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	0	1	74	2339	919	143	34	14	3526	18	3508
PCT	.1	.0	*	2.1	66.3	26.1	4.1	1.0	.4	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	1.2	.3	.0	.0	.0	1.5
3-4	.1	1.8	1.0	.0	.0	.0	2.9
5-6	.0	.1	.7	*	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	2.3	*	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.2	8.4	3.3	.0	.0	.0	11.9
3-4	.1	7.6	13.0	.4	.0	.0	21.1
5-6	.0	1.6	8.5	.5	.0	.0	10.6
7	.0	.3	2.5	.4	.0	.0	3.2
8-9	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	18.6	27.4	1.5	.0	.0	47.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	*	5.9	3.5	.0	.0	.0	9.4
3-4	.0	5.0	11.1	.2	.0	.0	16.3
5-6	.1	1.8	11.3	.7	.0	.0	13.8
7	.0	.1	3.5	.8	.0	.0	4.4
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	13.0	30.0	1.9	.0	.0	45.0

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0005 NATAL 4.4S 33.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.1	.3	.0	.0	.0	.3
5-6	.0	.1	.2	.1	.0	.0	.4
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.7	.1	.0	.0	1.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.0	.0	.0	.1	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.4	.9	.0	.0	.0	.0	1.3	
1-2	.2	15.7	7.2	.0	.0	.0	23.1	
3-4	.1	14.5	25.4	.6	.0	.0	40.7	
5-6	.1	3.6	20.7	1.3	.0	.0	25.6	
7	.0	.4	6.2	1.2	.0	.0	7.8	
8-9	.0	.1	.7	.3	.0	.0	1.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	35.2	60.5	3.5	.0	.0	100.0	1353

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	9.4	19.9	10.1	2.9	.7	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1218	4
6-7	*	.6	10.4	15.8	5.9	1.5	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	963	5
8-9	.0	.1	1.1	4.1	4.2	1.0	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	311	6
10-11	.0	.4	.3	.5	.7	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	6
12-13	.0	.0	.4	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
>13	.0	.0	.0	.3	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
INDET	.2	.9	2.8	1.7	.8	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	4
TOTAL	24	318	972	915	412	106	31	9	3	1	0	0	0	0	0	0	0	0	0	2791	4
PCT	.9	11.4	34.8	32.8	14.8	3.8	1.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	3.8	11.3	7.5	.0	.0	.0	.0	22.6	.0	.0	.0	.0	.0		.0	77.4
NE	.0	.3	.0	.0	.0	.0	.0	.3	.9	.1	.0	.0	.0		.0	98.7
E	.3	.4	.1	.0	.0	.0	.0	.7	.7	.2	.5	.0	.2		.0	97.7
SE	.2	.8	.1	.0	.0	.0	.0	1.1	1.7	.1	.4	.0	.1		.0	96.7
S	.0	1.1	.0	.0	.0	.0	.0	1.1	3.4	.0	.0	.0	.0		.0	95.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0		.0	75.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.3	.6	.1	.0	.0	.0	.0	1.0	1.2	.1	.4	.0	.1		.0	97.1
TOT OBS:	3879															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.1	.9	.1	.0	.0	.0	.0	1.1	.5	.3	.1	.0	.1		.0	97.8
06&09	.4	.8	.1	.0	.0	.0	.0	1.3	2.1	.2	.7	.0	.0		.0	95.8
12&15	.3	.2	.0	.0	.0	.0	.0	.5	.9	.0	.5	.0	.1		.0	97.9
18&21	.2	.6	.1	.0	.0	.0	.0	.9	1.3	.0	.4	.0	.2		.0	97.2
TOT PCT	.3	.6	.1	.0	.0	.0	.0	1.0	1.2	.1	.4	.0	.1		.0	97.1
TOT OBS:	3892															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	.1	.0	.0	.0		.2	9.2	.1	.2	.4	.2	.2	.2	*	.1
NE	.1	2.1	1.8	.0	.0	.0		4.0	10.5	5.9	3.3	5.2	2.8	4.3	4.1	3.0	2.8
E	.4	18.6	20.4	.5	*	.0		39.9	11.6	43.8	35.3	42.3	37.7	46.7	36.1	40.2	33.6
SE	.2	19.9	32.4	1.5	*	.0		54.0	12.5	49.1	59.1	50.4	57.5	46.9	57.6	54.5	60.9
S	*	.7	1.0	*	*	.0		1.8	12.6	.9	2.1	1.5	1.7	1.7	1.9	2.0	2.7
SW	.0	*	*	.0	.0	.0		*	12.5	.0	.0	.1	.0	*	*	.1	.0
W	.0	.0	*	.0	.0	.0		*	17.6	.1	.0	.0	.0	.0	*	.0	.0
NW	*	*	*	.0	.0	.0		*	11.2	.0	*	.1	.0	.1	*	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.2	.0	.1	.0	.0	.0	.1	.0
TOT OBS	73	3857	5192	190	4	0	9316		12.1	992	839	1795	851	1013	1129	1822	875
TOT PCT	.8	41.4	55.7	2.0	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	*	.0	.0		.2	9.2	.1	.3	.2	*
NE	.6	3.1	.3	.0	.0		4.0	10.5	4.7	4.4	4.2	3.0
E	3.8	30.7	5.4	.1	.0		39.9	11.6	39.9	40.8	41.1	38.1
SE	3.5	39.7	10.6	.1	.0		54.0	12.5	53.7	52.7	52.5	56.6
S	.2	1.2	.4	*	.0		1.8	12.6	1.4	1.6	1.8	2.2
SW	*	*	*	.0	.0		*	12.5	.0	*	*	.1
W	.0	*	*	.0	.0		*	17.6	.1	.0	*	.0
NW	*	*	*	.0	.0		*	11.2	*	*	.1	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.1	.1	.0	.1
TOT OBS	763	6976	1555	22	0	9316		12.1	1831	2646	2142	2697
TOT PCT	8.2	74.9	16.7	.2	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0005 NATAL
4.4S 33.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	.5	45.0	52.4	1.9	.1	.0	11.9	100.0	1831
06&09	.1	.5	44.5	52.6	2.2	.1	.0	11.9	100.0	2646
12&15	.0	.9	35.4	61.3	2.4	.0	.0	12.6	100.0	2142
18&21	.1	.9	40.7	56.7	1.7	.0	.0	12.0	100.0	2697
TOT	6	67	3857	5192	190	4	0	12.1		9316
PCT	.1	.7	41.4	55.7	2.0	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	*	*		2.1
NE	3.1	1.8	.7	.2		2.6
E	21.1	17.3	7.8	.9		2.9
SE	18.4	17.5	8.5	1.0		3.1
S	.4	.4	.2	.0		2.8
SW	.1	*	.0	.0		1.0
W	*	.0	.0	.0		1.0
NW	*	*	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.0	.0		.8
TOT OBS	1454	1245	578	71	3348	3.0
TOT PCT	43.4	37.2	17.3	2.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.3	
NE	*	*	.0	.0	.2	.1	*	.0	*	.0	5.5	
E	*	.0	.3	1.0	1.4	.5	.4	.1	.1	*	43.3	
SE	*	.0	.1	1.4	1.5	.8	.5	.1	*	.0	41.0	
S	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	2	1	12	83	104	45	31	8	5	1	3056	3348
TOT PCT	.1	*	.4	2.5	3.1	1.3	.9	.2	.1	*	91.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >2000	2.4	2.6	2.7	2.7	2.7	2.7	2.7	2.7
* OR >1000	5.4	5.7	5.8	5.8	5.8	5.8	5.8	5.8
* OR >600	7.8	8.2	8.3	8.3	8.3	8.3	8.3	8.3
* OR >300	8.1	8.5	8.6	8.6	8.6	8.6	8.6	8.6
* OR >150	8.1	8.6	8.6	8.6	8.6	8.6	8.6	8.6
* OR > 0	8.1	8.6	8.7	8.7	8.7	8.7	8.7	8.7
TOTAL	273	288	291	292	292	292	292	292

TOTAL NUMBER OF OBS: 3354

PCT FREQ NH <5/8: 91.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.9	20.0	27.0	23.4	12.8	4.2	2.2	1.7	.7 *	3483

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	*	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
2<5	NO PCP	.0	.1	.1	.3	*	.0	.0	.0	.0	.0	.4	
	TOT %	*	.1	.1	.3	*	.0	.0	*	.0	.0	.5	
	PCP	.1	*	.1	.1	*	.0	.0	.0	.0	.0	.3	
5<10	NO PCP	.0	.4	2.6	3.4	.2	*	*	.0	.0	.0	6.7	
	TOT %	.1	.4	2.6	3.5	.2	*	*	.0	.0	.0	6.9	
	PCP	.0	*	.3	.3	.0	.0	.0	.0	.0	.0	.6	
10+	NO PCP	.3	5.3	42.8	42.4	.9	.1	.0	.1	.0	.1	91.9	
	TOT %	.3	5.3	43.1	42.7	.9	.1	.0	.1	.0	.1	92.5	
	TOT OBS												3870
	TOT PCT	.3	5.8	45.8	46.6	1.1	.1	*	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
2<5	4-10	.0	.0	.1	.2	*	.0	.0	.0	.0		.2	
	11-21	.0	*	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.1	*	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	.3	*	.0	.0	*	.0	.0	.5	
	0-3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
5<10	4-10	*	.1	1.1	1.2	*	.0	.0	.0	.0		2.5	
	11-21	*	.2	1.3	1.9	.1	*	*	.0	.0		3.6	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.2	
	TOT %	*	.3	2.6	3.2	.2	*	*	.0	.0	.0	6.4	
	0-3	*	.1	.3	.2	*	.0	.0	.0	.0	.1	.8	
10+	4-10	.1	2.3	19.5	17.6	.5	*	.0	*	.0		40.0	
	11-21	.1	2.0	20.8	27.2	.7	*	.0	*	.0		50.8	
	22+	.0	.0	.3	1.0	*	.0	.0	.0	.0		1.3	
	TOT %	.2	4.4	40.9	45.9	1.3	.1	.0	*	.0	.1	92.8	
	TOT OBS												6041
	TOT PCT	.2	4.7	43.7	49.7	1.5	.1	*	*	.0	.1	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.1	.5	1.9	1.9	1.1	.4	.1	.1	.1	6.3	93.7	831
06&09	.1	.0	.1	2.3	2.6	.9	.9	.2	.3	.0	7.6	92.4	874
12&15	.0	.0	.6	2.9	4.2	1.3	1.6	.2	.0	.0	10.8	89.2	873
18&21	.1	.0	.2	2.6	3.1	1.9	.7	.3	.1	.0	9.1	90.9	890
TOT	2	1	12	84	104	45	31	8	5	1	293	3175	3468
PCT	.1	*	.3	2.4	3.0	1.3	.9	.2	.1	*	8.4	91.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.1	.6	7.8	91.5	1337
06&09	.0	.1	.0	.5	7.3	92.0	1647
12&15	.0	.1	.1	.3	4.9	94.7	1378
18&21	.1	.3	.1	.7	5.7	93.1	1692
TOT	2	8	4	32	387	5621	6054
PCT	*	.1	.1	.5	6.4	92.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.6	2.8	3.9	93.4	799
06&09	.1	.2	2.6	5.2	92.2	841
12&15	.0	.5	3.7	7.4	88.9	846
18&21	.1	.3	3.1	6.2	90.7	868
TOT	2	14	102	192	3060	3354
PCT	.1	.4	3.0	5.7	91.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	*	.0	.0	3	.1
90/94	.0	.0	*	.2	.5	.2	.1	.0	36	1.1
85/89	.0	.0	*	.1	1.9	2.7	.5	.2	178	5.4
80/84	.0	.0	.0	.1	3.5	31.5	18.5	4.9	1918	58.6
75/79	.0	.0	.0	.0	.4	13.4	17.6	3.4	1137	34.7
70/74	.0	.0	.0	.0	.0	.1	*	.0	3	.1
TOTAL	0	0	2	13	210	1570	1203	277	3275	100.0
PCT	.0	.0	.1	.4	6.4	47.9	36.7	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	*	.7	.3	*	*	.0	.0	.0	.0
.0	.3	3.0	2.0	.1	.0	.0	.0	.0	.0
.1	2.4	26.6	28.7	.7	*	.0	*	.0	*
.1	2.6	16.1	15.4	.3	.1	.0	*	.0	.1
.0	.0	.1	*	.0	.0	.0	.0	.0	.0
.2	5.4	46.5	46.5	1.1	.1	.0	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	83	81	79	77	75	70	79.3	1814
06&09	89	83	81	79	77	75	69	79.1	2613
12&15	95	89	86	81	79	77	72	81.6	2106
18&21	98	90	85	81	78	77	70	81.0	2632
TOT	98	88	84	80	78	76	69	80.3	9165

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	2.0	41.4	46.8	9.8	81	793
06&09	.0	.0	2.4	37.3	49.2	11.1	82	868
12&15	.0	.4	8.9	57.7	27.0	6.0	78	797
18&21	.0	1.5	12.5	55.9	23.3	6.9	77	827
TOT	0	15	211	1574	1206	279	80	3285

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.1	.3	.2	21	.0	.6
9/10	.0	.0	.0	*	.2	.4	.0	20	.0	.6
7/8	.0	.0	*	.1	.7	.8	.0	56	.0	1.6
6	.0	.0	*	.1	.8	*	.0	32	.0	.9
5	.0	.0	.1	.3	1.4	.0	.0	61	*	1.7
4	.0	.0	.1	1.6	1.2	.0	.0	99	*	2.8
3	.0	.0	.2	2.8	.5	*	.0	124	.1	3.5
2	.0	.0	.8	5.6	.2	.0	.0	229	*	6.6
1	.0	.0	3.2	9.4	.1	.0	.0	441	.1	12.6
0	.0	.0	13.4	8.4	.1	.0	.0	759	.1	21.8
-1	.0	.0	16.4	3.9	.1	.0	.0	709	.1	20.4
-2	.0	.1	10.7	1.2	.0	.0	.0	417	*	12.0
-3	.0	*	6.7	.5	.0	.0	.0	254	.0	7.3
-4	.0	.2	3.0	.4	.0	.0	.0	126	.0	3.6
-5	.0	.2	1.9	.2	.0	.0	.0	77	.0	2.2
-6	.0	.1	.5	.0	.0	.0	.0	20	.0	.6
-7/-8	.0	.2	.1	.1	.0	.0	.0	12	.0	.3
-9/-10	.1	*	*	.0	.0	.0	.0	5	.0	.1
-11/-13	.1	.0	.1	.0	.0	.0	.0	7	.0	.2
TOTAL	7	29	1986	1203	184	52	10	3471	17	3454
PCT	.2	.8	57.2	34.7	5.3	1.5	.3	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.1	.0	.0	.0	.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.2	.0	.0	.0	.2
1-2	.0	1.6	.8	.0	.0	.0	2.4
3-4	.0	1.1	1.7	.0	.0	.0	2.8
5-6	.0	.3	1.0	.0	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.0	.0	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.2	9.9	4.1	.0	.0	.0	14.3
3-4	.0	9.5	12.3	.0	.0	.0	21.8
5-6	.0	1.9	8.5	.3	.0	.0	10.8
7	.0	.1	2.1	.0	.0	.0	2.2
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	21.5	27.5	.3	.0	.0	49.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.6
1-2	.0	4.5	3.8	.0	.0	.0	8.3
3-4	.0	5.4	12.1	.1	.0	.0	17.6
5-6	.0	1.6	8.5	.4	.0	.0	10.5
7	.0	.2	1.7	1.1	.0	.0	3.1
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.2	26.9	2.0	.0	.0	41.0

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0005 NATAL
4.4S 33.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.3	.3	.0	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.7	.2	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	.7	.4	.0	.0	.0	1.3	
1-2	.3	16.4	8.7	.0	.0	.0	25.5	
3-4	.0	16.4	26.6	.1	.0	.0	43.1	
5-6	.0	3.7	18.4	.7	.0	.0	22.9	
7	.0	.3	4.1	1.2	.0	.0	5.6	
8-9	.0	.0	1.0	.2	.0	.0	1.2	
10-11	.0	.0	.1	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1363
TOT PCT	.6	37.5	59.4	2.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	8.3	21.9	9.4	2.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1257	4
6-7	.0	.6	11.2	17.7	4.4	.8	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1001	5
8-9	.0	.2	1.6	4.3	3.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	305	6
10-11	.0	*	.1	.8	.5	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
12-13	.0	.0	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
>13	.0	.0	.0	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
INDET	.1	1.3	3.1	1.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	4
TOTAL	26	298	1094	983	349	71	25	6	0	0	0	0	0	0	0	0	0	0	0	2852	4
PCT	.9	10.4	38.4	34.5	12.2	2.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.45 33.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.6	3.9	1.1	.0	.0	.0	.0	7.6	4.4	.5	.0	.0	.0	.0	.0	87.6
NE	2.5	3.2	1.0	.0	.0	.0	.0	6.7	3.6	.6	.6	.0	.5	.0	.0	88.2
E	1.2	2.4	.5	.0	.0	.0	*	4.0	3.3	.4	.4	.0	.2	*		91.7
SE	1.6	2.5	.4	.0	.0	.0	*	4.4	3.4	.3	.3	.0	.1	*		91.6
S	2.5	3.1	1.1	.0	.0	.0	*	6.6	4.6	.2	.1	.0	.2	*		88.3
SW	6.5	3.3	1.7	.0	.0	.0	.0	11.6	4.9	.8	.1	.0	.4	.0		82.2
W	5.8	8.8	.3	.0	.0	.0	.0	14.9	4.1	.0	1.6	.0	.9	.0		78.5
NW	3.5	4.4	.5	.0	.0	.0	.0	8.4	4.5	.5	.0	.0	.0	.0		69.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.6	3.9	.5	.0	.0	.0	.0	5.0	4.4	.4	.0	.0	.4	.0		89.8
TOT PCT	1.6	2.5	.5	.0	.0	.0	*	4.6	3.5	.4	.3	.0	.2	*		91.0
TOT OBS: 47591																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	2.5	.7	.0	.0	.0	*	4.7	3.2	.9	.2	.0	.2	*		90.9
06&09	2.1	2.9	.6	.0	.0	.0	*	5.6	4.3	.5	.4	.0	.1	*		89.1
12&15	1.5	2.2	.4	.0	.0	.0	*	4.0	3.2	*	.2	.0	.2	*		92.4
18&21	1.5	2.6	.4	.0	.0	.0	*	4.5	3.4	.1	.3	.0	.2	.0		91.5
TOT PCT	1.7	2.6	.5	.0	.0	.0	*	4.7	3.5	.4	.3	.0	.2	*		91.0
TOT OBS: 47983																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.3	.1	*	.0	.0		.5	7.5	.7	.4	.6	.4	.7	.4	.6	.5
NE	.3	2.4	1.0	*	*	.0		3.7	9.6	4.6	3.3	4.2	3.1	4.6	3.3	3.4	3.0
E	.7	14.5	15.0	.7	*	.0		30.9	11.5	34.5	28.8	32.6	29.1	34.7	29.0	30.2	27.0
SE	.8	20.4	33.2	3.0	*	.0		57.5	12.7	52.9	60.3	55.5	60.1	52.5	60.2	58.4	61.6
S	.2	2.0	3.0	.4	*	.0		5.7	12.5	5.5	5.8	5.4	5.7	6.0	5.6	5.7	6.3
SW	.1	.3	.1	*	.0	.0		.4	9.8	.3	.5	.4	.6	.4	.5	.4	.5
W	*	.1	*	*	.0	.0		.2	10.2	.3	.2	.2	.2	.2	.2	.3	.2
NW	*	.2	*	*	.0	.0		.2	7.6	.3	.2	.2	.2	.3	.2	.3	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.9	.6	.9	.5	.6	.6	.8	.7
TOT OBS							110026		12.1	11795	9740	20715	10718	12175	12570	21588	10725
TOT PCT	3.0	40.2	52.5	4.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.3	.2	*	*	.0		.5	7.5	.6	.5	.5	.6
NE	1.2	2.3	.2	*	.0		3.7	9.6	4.0	3.9	3.9	3.3
E	4.3	22.0	4.5	.1	*		30.9	11.5	31.9	31.4	31.8	29.1
SE	5.3	38.1	13.7	.3	*		57.5	12.7	56.2	57.1	56.5	59.5
S	.9	3.3	1.5	.1	*		5.7	12.5	5.7	5.5	5.8	5.9
SW	.2	.2	*	.0	.0		.4	9.8	.4	.5	.4	.5
W	.1	.1	*	.0	.0		.2	10.2	.2	.2	.2	.2
NW	.1	.1	*	.0	.0		.2	7.6	.2	.2	.2	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.8	.8	.6	.7
TOT OBS						110026		12.1	21535	31433	24745	32313
TOT PCT	13.1	66.4	20.0	.5	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.45 33.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.8	2.2	42.8	50.3	3.9	.1	.0	11.9	100.0	21535
06&09	.8	2.5	42.7	49.8	4.1	*	.0	11.8	100.0	31433
12&15	.6	2.2	36.0	56.4	4.7	.1	.0	12.5	100.0	24745
18&21	.7	2.3	39.3	53.6	4.0	*	.0	12.1	100.0	32313
TOT								12.1		110026
PCT	.7	2.3	40.2	52.5	4.2	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.3	.1		4.2
NE	1.6	1.4	1.2	.5		3.4
E	13.7	11.5	7.7	2.0		3.4
SE	18.9	17.1	12.8	3.5		3.6
S	1.4	1.6	2.0	.9		4.2
SW	.1	.1	.1	.1		4.0
W	*	*	.1	.1		4.5
NW	*	.1	.1	.1		4.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.2	.1		3.6
TOT OBS					39166	3.6
TOT PCT	36.1	32.0	24.5	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	*	.1	.1	*	*	.0	*	*	.4	
NE	*	*	.1	.3	.4	.1	.1	*	*	*	3.7	
E	.1	*	.2	1.3	2.3	1.0	.4	.1	*	*	29.3	
SE	.1	.1	.4	2.4	3.7	1.8	.9	.2	.1	*	42.4	
S	*	*	.1	.5	.7	.3	.1	*	*	*	3.9	
SW	*	*	*	*	.1	*	*	*	.0	.0	.2	
W	*	*	*	*	*	*	.0	*	.0	*	.1	
NW	*	*	*	*	.1	*	*	*	*	*	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.1	.1	*	*	*	.0	*	.6	
TOT OBS												39166
TOT PCT	.3	.2	.9	4.8	7.4	3.4	1.5	.4	.2	.1	80.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.3	.3	.3	.3	.3	.3
* OR >5000	.6	.7	.7	.7	.7	.7	.7	.7
* OR >3500	1.8	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	4.6	5.4	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	10.5	12.5	12.9	13.0	13.0	13.0	13.0	13.0
* OR >600	14.1	17.1	17.7	17.8	17.8	17.8	17.8	17.8
* OR >300	14.6	17.9	18.5	18.6	18.7	18.7	18.7	18.7
* OR >150	14.7	18.0	18.7	18.8	18.9	18.9	18.9	18.9
* OR > 0	14.8	18.2	18.9	19.0	19.1	19.1	19.2	19.2

TOTAL NUMBER OF OBS: 39282 PCT FREQ NH <5/8: 80.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.5	17.0	24.0	20.9	12.2	5.9	5.3	3.7	4.4 .2	41130

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	.0	.0	.0	*	*	
	NO PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	.0	.0	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	*	*	*	*	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	.0	.0	.0	.0	.1	
1<2	PCP	*	*	*	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	.0	*	.0	.0	.1	
	TOT %	*	*	.1	.1	*	*	.0	*	.0	.0	.2	
2<5	PCP	*	*	.1	.2	.1	*	*	*	.0	.0	.5	
	NO PCP	*	.1	.3	.4	.1	*	*	*	.0	*	1.0	
	TOT %	*	.1	.4	.6	.2	*	*	*	.0	*	1.4	
5<10	PCP	*	.1	.5	1.0	.2	*	*	*	.0	*	2.0	
	NO PCP	.1	.4	2.8	4.6	.7	.1	*	*	.0	*	8.8	
	TOT %	.1	.5	3.3	5.6	1.0	.1	.1	.1	.0	.1	10.8	
10+	PCP	*	.1	.5	1.1	.2	*	*	*	.0	*	1.9	
	NO PCP	.5	3.9	30.0	45.2	4.6	.3	.1	.2	.0	.6	85.4	
	TOT %	.5	4.0	30.4	46.3	4.8	.3	.2	.2	.0	.6	87.3	
	TOT OBS												47490
	TOT PCT	.7	4.6	34.3	52.6	6.0	.5	.2	.3	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	.0	*	*	*	*	.0	.0	.0	.0		*	
	11-21	*	.0	*	*	*	*	.0	.0	.0		*	
	22+	.0	*	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	.0	.0	.0	*	.1	
1/2<1	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	*	*	*	*	.0	.0	.0		*	
	11-21	.0	*	*	*	*	.0	.0	.0	.0		.1	
	22+	*	*	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	.1	*	*	.0	.0	.0	.0	.1	
1<2	0-3	*	*	*	*	.0	.0	.0	*	.0	*	*	
	4-10	*	*	*	.1	*	*	.0	*	.0		.1	
	11-21	.0	*	*	.1	*	*	*	.0	.0		.1	
	22+	*	*	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.2	.3	.1	*	*	*	.0		.6	
	11-21	*	*	.2	.4	.1	*	*	*	.0		.8	
	22+	*	*	*	.1	*	*	*	.0	.0		.1	
	TOT %	*	.1	.5	.8	.2	*	*	*	.0	*	1.7	
5<10	0-3	*	*	.1	.1	*	*	*	*	.0	.1	.4	
	4-10	.1	.3	1.4	1.9	.3	*	*	*	.0		4.0	
	11-21	*	.1	1.5	3.1	.5	*	*	*	.0		5.3	
	22+	*	*	.1	.4	.1	*	*	*	.0		.6	
	TOT %	.1	.4	3.1	5.5	.9	.1	*	.1	.0	.1	10.3	
10+	0-3	.1	.3	.6	.7	.2	.1	*	*	.0	.6	2.6	
	4-10	.3	2.2	14.0	17.8	1.7	.2	.1	.1	.0		36.4	
	11-21	.1	1.0	14.0	28.3	2.4	.1	*	*	.0		45.8	
	22+	*	*	.5	2.0	.3	*	.0	*	.0		2.8	
	TOT %	.5	3.5	29.1	48.8	4.5	.3	.1	.2	.0	.6	87.6	
	TOT OBS												74836
	TOT PCT	.6	4.1	32.8	55.3	5.6	.4	.2	.3	.0	.7	100.0	

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	.9	4.1	6.6	2.9	1.3	.3	.2	.1	16.9	83.1	9769
06&09	.4	.2	.8	5.0	7.5	2.8	1.5	.5	.1	.1	19.0	81.0	9739
12&15	.2	.2	.8	5.0	7.5	4.0	1.8	.4	.1	.1	20.0	80.0	10545
18&21	.2	.2	.9	4.7	7.1	3.4	1.4	.5	.1	.1	18.7	81.3	10660
TOT													40713
PCT	.3	.2	.9	4.7	7.2	3.3	1.5	.4	.1	.1	18.6	81.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.3	1.9	10.9	86.7	16047
06&09	.1	.1	.3	1.7	11.9	85.9	20321
12&15	*	.1	.2	1.4	8.4	89.8	17599
18&21	.1	.2	.5	1.7	9.8	87.7	21272
TOT							75239
PCT	.1	.1	.3	1.7	10.3	87.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.5	6.6	11.4	82.0	9393
06&09	.4	1.6	7.7	12.5	79.8	9342
12&15	.3	1.3	7.1	13.7	79.2	10240
18&21	.2	1.4	6.9	12.6	80.5	10307
TOT						39282
PCT	.3	1.4	7.1	12.5	80.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	*	*	.0	.0		*
90/94	.0	.0	*	.2	.4	.1	.1	*		.8
85/89	.0	.0	*	.2	1.5	2.9	.8	.4		5.7
80/84	.0	.0	*	.1	4.1	28.4	19.0	4.6		56.3
75/79	.0	.0	.0	*	.6	13.6	16.0	6.1		36.4
70/74	.0	.0	.0	.0	*	*	.2	.6		.8
65/69	.0	.0	.0	.0	.0	.0	*	*		*
TOTAL									39564	100.0
PCT	.0	.0	*	.5	6.6	45.1	36.0	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	*	.0	.0	.0	.0	.0	.0
	*	*	.4	.3	.1	*	.0	*	.0	*
	.1	.3	2.3	2.6	.3	*	*	*	.0	.1
	.4	2.7	20.2	29.3	2.8	.2	.1	.1	.0	.5
	.2	1.3	11.6	20.2	2.5	.2	.1	.1	.0	.2
	*	*	.1	.4	.2	*	*	*	.0	*
	.0	*	*	*	.0	.0	.0	.0	.0	.0
	.7	4.5	34.5	52.8	5.8	.5	.2	.2	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	83	82	79	77	75	64	79.3	21431
06&09	94	83	82	79	77	75	64	79.1	31168
12&15	95	88	85	81	78	76	66	81.4	24233
18&21	98	89	85	81	78	75	68	80.9	31661
TOT	98	87	84	80	77	75	64	80.2	108493

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	2.2	41.0	44.8	12.0	82	9222
06&09	.0	.1	2.0	36.1	45.9	15.9	82	10201
12&15	.0	.6	9.7	51.8	28.0	9.8	78	10123
18&21	.0	1.3	12.0	50.8	26.3	9.7	78	10358
TOT	0	212	2630	17974	14370	4718	80	39904

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	4	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	*	*	25	.0	.1
11/13	.0	.0	.0	.0	*	*	*	.1	.1	134	.0	.3
9/10	.0	.0	.0	.0	*	*	.1	.3	*	185	.0	.4
7/8	.0	.0	.0	*	*	.1	.5	.3	.0	400	.0	1.0
6	.0	.0	.0	*	*	.2	.6	.1	*	369	*	.9
5	.0	.0	.0	.0	.1	.5	.9	.1	*	639	*	1.5
4	.0	.0	.0	*	.2	1.2	1.0	*	.0	987	*	2.3
3	.0	.0	.0	*	.3	2.1	.9	*	.0	1390	*	3.3
2	.0	.0	.0	*	1.2	4.4	.7	*	.0	2638	*	6.3
1	.0	.0	.0	*	3.6	6.6	.4	.0	.0	4454	*	10.6
0	.0	.0	.0	.1	10.3	9.3	.2	*	.0	8336	.1	19.8
-1	.0	.0	.0	.2	12.0	7.1	.1	.0	.0	8137	.1	19.4
-2	.0	.0	*	.4	9.7	3.9	*	.0	.0	5862	*	14.0
-3	.0	.0	*	.6	6.4	1.7	*	.0	.0	3655	*	8.7
-4	.0	.0	*	.8	3.8	.7	*	.0	.0	2206	*	5.3
-5	.0	.0	*	.6	2.0	.2	*	.0	.0	1198	.0	2.9
-6	.0	.0	*	.5	.8	.1	.0	.0	.0	593	.0	1.4
-7/-8	.0	.0	*	.6	.4	.1	.0	.0	.0	456	*	1.1
-9/-10	.0	.0	*	.2	.1	*	.0	.0	.0	138	.0	.3
-11/-13	*	*	*	*	*	.0	.0	.0	.0	47	*	.1
-14/-16	*	*	*	.0	.0	.0	.0	.0	.0	12	.0	*
TOTAL										41865		
PCT	*	*	.1	4.1	50.9	38.2	5.4	1.0	.2	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	*	.2	.1	.0	.0	.0	.4
3-4	*	.1	.1	.0	.0	.0	.2
5-6	.0	*	*	*	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.2	*	.0	.0	.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.5
1-2	.1	1.6	.4	.0	.0	.0	2.1
3-4	*	1.0	.8	*	.0	.0	1.8
5-6	*	.2	.4	*	.0	.0	.6
7	.0	.1	.1	*	.0	.0	.1
8-9	.0	*	*	*	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.2	1.8	*	.0	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	*	.0	.0	.0	1.1
1-2	.3	8.1	2.8	.0	.0	.0	11.1
3-4	.1	6.2	8.6	.2	.0	.0	15.1
5-6	.0	1.4	5.7	.2	.0	.0	7.3
7	*	.1	1.7	.2	.0	.0	2.1
8-9	.0	.1	.3	.1	.0	.0	.5
10-11	.0	.0	.1	*	.0	.0	.1
12	.0	.0	*	*	.0	.0	.1
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	16.8	19.2	.8	.0	.0	37.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.1
1-2	.2	7.6	3.5	.0	.0	.0	11.4
3-4	*	5.9	12.2	.3	.0	.0	18.5
5-6	*	1.3	9.9	.6	.0	.0	11.8
7	*	.2	3.3	.8	.0	.0	4.3
8-9	.0	.1	.7	.4	*	.0	1.2
10-11	.0	*	.2	.1	*	.0	.3
12	.0	*	*	.1	*	.0	.1
13-16	.0	*	*	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	15.9	29.9	2.3	*	.0	48.7

PERIOD: (OVER-ALL) 1963-1974 AREA 0005 NATAL

TABLE 18 (CONT) 4.45 33.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	1.0	.3	.0	.0	.0	1.4
3-4	*	.7	1.2	*	.0	.0	2.0
5-6	.0	.2	.9	.1	.0	.0	1.1
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	*	*	*	.0	.0	.1
12	.0	*	.0	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.1	2.9	.4	.0	.0	5.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1
1-2	*	.1	*	.0	.0	.0	.1
3-4	*	*	*	.0	.0	.0	.1
5-6	.0	*	*	.0	.0	.0	*
7	.0	*	*	*	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	*	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	*
1-2	*	.1	*	.0	.0	.0	.2
3-4	*	.1	*	*	.0	.0	.1
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	*	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	*	.0	.0	.0	.1	
1-2	*	.2	*	.0	.0	.0	.2	
3-4	*	.1	*	.0	.0	.0	.1	
5-6	.0	*	*	.0	.0	.0	*	
7	*	*	.0	.0	.0	.0	*	
8-9	.0	.0	*	*	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	*	.3	.1	*	.0	.0	.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	2.7	.1	.0	.0	.0	4.9	
1-2	1.0	18.9	7.1	.0	.0	.0	27.0	
3-4	.2	13.9	22.9	.5	.0	.0	37.6	
5-6	*	3.0	16.9	1.0	.0	.0	20.9	
7	*	.4	5.5	1.1	.0	.0	7.0	
8-9	.0	.2	1.2	.6	*	.0	1.9	
10-11	.0	*	.2	.2	*	.0	.4	
12	.0	*	.1	.1	*	.0	.2	
13-16	.0	*	*	*	*	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	39.1	54.1	3.5	*	.0	100.0	15951

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	8.8	17.4	8.8	2.8	.6	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	13243	4
6-7	*	1.5	10.0	14.5	5.9	1.7	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11507	5
8-9	*	.3	1.6	4.0	4.0	1.5	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4124	6
10-11	.0	.3	.5	.7	.8	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1046	6
12-13	.0	.0	.5	.3	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	414	5
>13	.0	.0	.0	.2	.1	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	148	7
INDET	.9	1.7	2.7	1.6	.8	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2717	4
TOTAL																				33199	4
PCT	2.0	12.7	32.8	30.2	14.7	4.9	1.8	.6	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1854-1974

AREA 0005 NATAL
4.4S 33.5W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	*	*	.0	*	.0	*	.0	.0	.0	.0	.0	.1	13	*
89/90	.1	*	.1	.2	*	*	*	.0	.0	*	*	*	47	*
87/88	.1	.2	.3	.6	.3	.1	*	*	.0	.2	*	.1	164	.2
85/86	.7	2.3	3.8	5.0	2.9	1.3	.4	.1	.1	.1	.1	.4	1489	1.4
83/84	6.8	13.8	28.3	33.5	25.7	9.4	2.4	1.4	1.2	1.3	2.0	3.3	11216	10.8
81/82	45.3	59.2	56.3	51.9	56.8	46.9	21.6	10.2	8.3	12.7	18.8	28.9	36101	34.8
79/80	42.1	22.4	10.1	7.8	12.9	35.9	52.2	43.0	42.8	49.5	55.1	55.5	37173	35.8
77/78	4.4	1.7	.8	.8	.9	5.2	20.6	39.6	42.7	33.0	21.6	10.7	15628	15.1
75/76	.5	.3	.2	.2	.3	1.0	2.4	4.9	4.2	2.7	1.8	.9	1658	1.6
73/74	*	*	.1	.0	.1	.2	.3	.7	.5	.4	.3	.1	240	.2
71/72	*	*	*	*	.1	.1	*	*	.1	.1	.1	*	45	*
69/70	*	.0	.0	.0	.0	*	.0	*	*	.0	*	*	8	*
67/68	.0	.0	.0	.0	.0	.0	*	*	*	*	.0	.0	9	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8406	8127	9062	8534	8809	8824	8689	8587	8048	8869	8980	8856	103791	100.0
MEAN	80.6	81.3	82.0	82.3	81.8	80.7	79.5	78.7	78.6	79.0	79.4	80.0	80.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1011	1013	1012	1012	1011	1012	1012	5866
FEB	1012	1012	1011	1012	1012	1012	1010	1011	1011	5696
MAR	1012	1012	1010	1012	1012	1012	1010	1012	1011	6269
APR	1012	1012	1011	1012	1013	1013	1010	1012	1012	5700
MAY	1013	1013	1011	1013	1013	1013	1011	1013	1012	5965
JUN	1015	1014	1013	1014	1015	1015	1013	1014	1014	5697
JUL	1015	1016	1014	1015	1016	1016	1014	1015	1015	5839
AUG	1015	1016	1014	1015	1016	1015	1013	1015	1015	5762
SEP	1015	1015	1013	1015	1015	1015	1013	1014	1014	5599
OCT	1014	1014	1012	1014	1014	1014	1012	1013	1013	6101
NOV	1013	1012	1011	1013	1013	1013	1011	1012	1012	5814
DEC	1012	1012	1011	1012	1013	1012	1010	1012	1012	5764
ANN	1013	1013	1012	1013	1014	1014	1012	1013	1013	70072
OBS	11387	3640	14103	4498	11711	5388	14947	4398		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1007	1008	1010	1012	1013	1015	1017	1021
FEB	998	1005	1008	1010	1011	1013	1015	1016	1021
MAR	998	1006	1008	1010	1011	1013	1015	1016	1022
APR	999	1006	1009	1010	1012	1013	1015	1017	1020
MAY	1001	1007	1009	1011	1012	1014	1016	1017	1021
JUN	1001	1008	1011	1013	1014	1015	1017	1019	1022
JUL	1003	1010	1012	1014	1015	1016	1018	1019	1024
AUG	1004	1010	1011	1013	1015	1016	1018	1019	1024
SEP	1005	1009	1011	1013	1014	1016	1017	1019	1022
OCT	1004	1008	1010	1012	1013	1015	1016	1018	1026
NOV	1000	1006	1008	1010	1012	1013	1015	1017	1022
DEC	998	1006	1008	1010	1012	1013	1015	1016	1021

JANUARY

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1856-1974

AREA 0006 RECIFE
9.1S 34.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0		.0	98.1
NE	.1	.9	.4	.0	.0	.0	.0	1.4	1.6	.1	.0	.0	.0		.0	97.0
E	.6	1.0	.1	.0	.0	.0	.0	1.7	1.5	.8	.3	.0	.0		.0	95.7
SE	.5	1.0	.2	.0	.0	.0	.0	1.7	.8	.3	.1	.0	.0		.0	97.1
S	2.2	1.1	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	.0		.0	95.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.3	.0	.0	.0		.0	92.1
W	.0	.0	.0	.0	.0	.0	.0	.0	10.8	.0	.0	.0	.0		.0	89.2
NW	27.6	13.8	.0	.0	.0	.0	.0	41.4	.0	.0	13.8	.0	.0		.0	44.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.6	1.0	.2	.0	.0	.0	.0	1.7	1.3	.5	.2	.0	.0		.0	96.3
TOT OBS:	3700															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	.5	1.1	.1	.0	.0	.0	.0	1.7	.9	1.2	.3	.0	.0		.0	95.9
06609	.8	1.3	.2	.0	.0	.0	.0	2.4	1.7	1.2	.3	.0	.0		.0	94.5
12615	.7	.7	.2	.0	.0	.0	.0	1.6	1.3	.0	.2	.0	.1		.0	96.7
18621	.2	1.0	.1	.0	.0	.0	.0	1.3	1.2	.0	.0	.0	.0		.0	97.6
TOT PCT	.6	1.0	.2	.0	.0	.0	.0	1.7	1.3	.6	.2	.0	*		.0	96.2
TOT OBS:	3730															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.5	.2	*	.0	.0		.7	9.5	.5	.5	.7	.4	1.7	.7	1.0	.2
NE	.3	6.8	5.1	.2	.0	.0		12.4	10.6	16.2	8.6	11.7	10.7	20.4	11.4	13.8	9.8
E	1.0	26.0	17.3	.5	.0	.0		44.8	10.3	45.1	44.0	44.6	44.9	45.6	45.6	46.2	42.1
SE	1.0	22.0	15.8	.5	.0	.0		39.3	10.5	35.4	44.7	40.2	40.7	29.8	39.5	36.7	44.1
S	.2	1.3	.7	*	.0	.0		2.2	9.1	2.4	1.9	2.2	2.3	1.9	2.1	2.0	3.0
SW	*	.1	.1	.0	.0	.0		.2	8.6	.1	.1	.2	.4	.1	.4	.1	.3
W	*	.1	.0	.0	.0	.0		.1	5.7	.0	.0	.1	.3	.2	.1	.0	.2
NW	*	.1	*	.0	.0	.0		.1	9.1	.1	.1	.2	.2	.2	.1	.0	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.2	.0	.1	.0	.1	.1	.4	.2
TOT OBS	299	6220	4277	136	0	0	10932		10.4	809	1147	1944	1273	847	1621	1946	1345
TOT PCT	2.7	56.9	39.1	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.5	*	.0	.0		.7	9.5	.5	.6	1.1	.7
NE	2.2	9.0	1.1	.1	.0		12.4	10.6	11.7	11.3	14.5	12.2
E	8.0	32.5	4.3	.1	.0		44.8	10.3	44.5	44.7	45.6	44.5
SE	7.2	27.7	4.4	.1	.0		39.3	10.5	40.9	40.4	36.2	39.7
S	.7	1.3	.2	.0	.0		2.2	9.1	2.1	2.2	2.0	2.4
SW	.1	.1	*	.0	.0		.2	8.6	.1	.3	.3	.2
W	.1	*	.0	.0	.0		.1	5.7	.0	.2	.2	.1
NW	*	.1	*	.0	.0		.1	9.1	.1	.2	.1	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.1	.1	.1	.3
TOT OBS	2035	7777	1100	20	0	10932		10.4	1956	3217	2468	3291
TOT PCT	18.6	71.1	10.1	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1856-1974

AREA 0006 RECIFE
9.1S 34.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	2.1	57.4	39.1	1.4	.0	.0	10.4	100.0	1936
06&09	.1	2.5	56.7	39.4	1.3	.0	.0	10.4	100.0	3217
12&15	.1	2.6	53.4	42.3	1.5	.0	.0	10.7	100.0	2468
18&21	.3	2.9	59.4	36.6	.9	.0	.0	10.1	100.0	3291
TOT	17	282	6220	4277	136	0	0	10.4		10932
PCT	.2	2.6	56.9	39.1	1.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.3	.4	*		3.7
NE	6.4	5.7	3.6	.6		3.2
E	19.5	15.6	11.9	2.3		3.3
SE	12.8	10.5	6.2	1.0		3.1
S	.7	.9	.4	.1		3.4
SW	.1	.0	.1	*		3.1
W	*	.1	.1	.0		4.4
NW	.0	*	.1	*		6.2
VAR	.0	.0	.0	.0		.0
CALM	*	*	.0	.0		2.0
TOT OBS	1104	913	625	111	2753	3.3
TOT PCT	40.1	33.2	22.7	4.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.1	
NE	.0	*	.1	.3	1.2	.4	.2	*	.0	.0	14.1	
E	.0	*	.3	1.5	2.9	1.5	.7	.1	*	*	42.3	
SE	.1	.0	.1	.8	1.4	.5	.6	.1	*	.0	26.8	
S	.0	.0	.0	*	.1	.1	.1	*	.0	.0	1.8	
SW	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
NW	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	2	2	12	71	158	72	44	8	2	1	2381	2753
TOT PCT	.1	.1	.4	2.6	5.7	2.6	1.6	.3	.1	*	86.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.4	1.8	1.9	2.0	2.0	2.0	2.0	2.0
* OR >2000	3.5	4.2	4.5	4.6	4.6	4.6	4.6	4.6
* OR >1000	8.5	9.8	10.3	10.3	10.3	10.3	10.3	10.3
* OR >600	10.5	12.3	12.9	12.9	12.9	12.9	12.9	12.9
* OR >300	10.8	12.7	13.4	13.4	13.4	13.4	13.4	13.4
* OR >150	10.9	12.8	13.5	13.5	13.5	13.5	13.5	13.5
* OR > 0	10.9	12.8	13.5	13.5	13.6	13.6	13.6	13.6
TOTAL	299	353	371	372	373	373	373	373

TOTAL NUMBER OF OBS: 2750

PCT FREQ NH <5/8: 86.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.8	21.2	26.6	20.8	11.0	5.0	3.6	2.8	2.1	.1	2937

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1856-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.0	*	*	*	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	*	.2	1.0	.5	.1	*	.0	*	.0	.0	1.9	
	TOT %	*	.2	1.0	.5	.1	*	.0	*	.0	.0	2.0	
	PCP	.0	.1	.4	.3	*	.0	.0	*	.0	.0	.8	
5<10	NO PCP	*	1.2	5.0	4.0	.3	.1	.1	*	.0	.0	10.8	
	TOT %	*	1.3	5.4	4.3	.4	.1	.1	*	.0	.0	11.6	
	PCP	.0	.1	.4	.2	.1	.0	.0	*	.0	.0	.8	
10+	NO PCP	1.0	13.8	40.7	27.5	1.9	.3	.1	.1	.0	.1	85.4	
	TOT %	1.0	13.9	41.0	27.7	2.0	.3	.1	.1	.0	.1	86.2	
	TOT OBS												3694
	TOT PCT	1.1	15.4	47.6	32.5	2.5	.4	.3	.2	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*	
	0-3	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.1	*	*	.0	.0	*	.0		.1	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	*	*	.0	.0	*	.0	.0	.2	
	0-3	.0	.0	*	.0	*	*	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	*	*	*	.0	.0	.0	.0	.1	
	0-3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	*	.1	.2	.4	.1	*	.0	.0	.0		.7	
	11-21	.0	.1	.4	.1	*	*	.0	*	.0		.6	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.7	.5	.1	*	.0	*	.0	.0	1.5	
	0-3	.0	*	.1	.2	*	.0	*	*	.0	*	.4	
5<10	4-10	*	.6	2.1	2.0	.2	*	*	*	.0		5.2	
	11-21	*	.3	1.8	1.4	.1	.0	.0	.0	.0		3.7	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	1.0	4.1	3.7	.3	*	.1	*	.0	*	9.3	
	0-3	*	.2	.9	.9	.1	*	.0	*	.0	.1	2.5	
10+	4-10	.4	7.4	26.4	20.0	1.3	.1	.1	*	.0		55.9	
	11-21	.3	6.1	13.5	9.9	.4	*	.0	*	.0		30.2	
	22+	*	.1	.1	*	*	.0	.0	.0	.0		.2	
	TOT %	.8	13.9	40.9	30.9	1.8	.2	.1	.1	.0	.1	88.8	
	TOT OBS												6322
	TOT PCT	.9	15.1	45.8	35.2	2.3	.3	.2	.1	.0	.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1856-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.1	2.2	5.2	3.4	.9	.1	.0	.0	12.1	87.9	672
06&09	.3	.0	.4	2.5	4.7	1.7	1.8	.1	.0	.0	11.6	88.4	709
12&15	.0	.0	.9	2.5	6.8	2.1	1.7	.4	.1	.0	14.6	85.4	754
18&21	.0	.3	.4	2.6	5.1	2.7	1.5	.4	.1	.1	13.2	86.8	779
TOT	2	2	14	72	159	72	44	8	2	1	376	2538	2914
PCT	.1	.1	.5	2.5	5.5	2.5	1.5	.3	.1	*	12.9	87.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.0	1.6	10.5	87.6	1253
06&09	.1	.3	.1	1.7	10.5	87.4	1783
12&15	.0	.1	.1	.7	7.2	91.9	1456
18&21	.0	.2	.4	2.0	9.4	88.0	1861
TOT	3	13	10	97	598	5632	6353
PCT	*	.2	.2	1.5	9.4	88.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.3	4.3	10.0	85.7	630
06&09	.3	.9	5.6	8.4	86.0	663
12&15	.0	1.0	4.3	11.2	84.4	718
18&21	.0	.7	5.0	9.3	85.7	739
TOT	2	20	132	269	2349	2750
PCT	.1	.7	4.8	9.8	85.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	*	*	0	13	.4
85/89	.0	.0	*	.5	2.4	2.2	1.0	.7	206	6.8
80/84	.0	.0	.0	.2	8.9	41.1	15.5	6.5	2186	72.2
75/79	.0	.0	.0	.0	.4	9.6	7.1	3.3	619	20.5
70/74	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	1	27	360	1602	716	320	3026	100.0
PCT	.0	.0	*	.9	11.9	52.9	23.7	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.1	.2	*	.0	*	.0	.0	.0
.3	1.3	2.6	2.3	.3	.1	.0	.0	.0	.0
.6	10.4	35.8	23.5	1.4	.3	.1	.1	.0	*
.2	2.5	9.7	7.3	.5	.1	.1	.1	.0	*
.0	.0	.0	*	*	.0	.0	.0	.0	.0
1.1	14.3	48.2	33.3	2.3	.4	.2	.2	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	83	82	80	78	76	70	79.8	1945
06&09	91	85	82	80	77	76	69	79.8	3167
12&15	95	89	86	82	79	77	71	82.1	2387
18&21	92	88	86	81	79	77	71	81.4	3205
TOT	95	88	85	81	78	76	69	80.8	10704

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.8	56.5	31.7	8.8	80	612
06&09	.0	.3	3.9	52.3	29.7	13.9	80	799
12&15	.0	1.2	16.6	55.0	18.2	8.9	76	806
18&21	.0	1.9	21.5	48.7	17.5	10.4	76	836
TOT	0	29	362	1614	724	324	78	3053

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1856-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	.0	*	2	.0	.1
9/10	.0	.0	*	.1	*	.3	14	.0	.5
7/8	.0	.0	.0	.1	.3	.4	26	.0	.9
6	.0	.0	*	.1	.7	.2	30	.0	1.0
5	.0	.0	*	.5	.9	*	46	.0	1.5
4	.0	.0	.0	1.1	1.1	.0	68	.0	2.3
3	.0	.0	.2	2.3	1.3	*	113	.0	3.8
2	.0	.0	.4	6.0	.7	.0	214	.1	7.1
1	.0	.0	1.8	8.7	.2	.0	321	.0	10.7
0	.0	.0	7.1	14.5	*	.0	648	*	21.5
-1	.0	*	12.2	9.4	.0	.0	649	.0	21.6
-2	.0	.0	10.3	4.0	.0	.0	431	.0	14.3
-3	.0	*	6.5	1.5	.0	.0	240	.0	8.0
-4	.0	.1	3.0	.5	.0	.0	107	.0	3.6
-5	.0	.2	1.2	.2	.0	.0	51	.0	1.7
-6	.0	.2	.4	*	.0	.0	19	.0	.6
-7/-8	.0	.1	.5	*	.0	.0	17	.0	.6
-9/-10	.0	.1	.1	.0	.0	.0	6	.0	.2
-11/-13	*	*	.0	.0	.0	.0	2	.0	.1
TOTAL	1	24	1314	1474	161	30	3004	3	3001
PCT	*	.8	43.7	49.1	5.4	1.0	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.2	.0	.0	.0	.7
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	.0	.0	.0	1.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.3
1-2	*	3.9	2.1	.0	.0	.0	6.1
3-4	.1	1.5	2.0	.0	.0	.0	3.6
5-6	.0	.7	1.6	.1	.0	.0	2.3
7	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.1	*	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.4	5.9	.1	.0	.0	13.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.1	.0	.0	.0	1.1
1-2	.7	19.2	6.4	.0	.0	.0	26.3
3-4	.0	11.6	7.8	.0	.0	.0	19.4
5-6	.0	1.5	5.5	.1	.0	.0	7.0
7	.0	.1	.6	.0	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	33.2	20.5	.1	.0	.0	54.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.6
1-2	.5	11.2	1.9	.0	.0	.0	13.6
3-4	.0	5.9	4.3	.1	.0	.0	10.3
5-6	.0	.5	2.7	.0	.0	.0	3.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	18.0	9.2	.1	.0	.0	27.9

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0006 RECIFE
9.1S 34.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.1	.0	.0	.0	.8	.0	*	.0	.0	.0	.0	*
3-4	.0	.3	.3	.0	.0	.0	.6	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.5	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.1	2.7	.2	.0	.0	.0	4.0	
1-2	1.2	35.7	10.7	.0	.0	.0	47.6	
3-4	.1	19.7	14.3	.1	.0	.0	34.1	
5-6	.1	2.7	9.8	.2	.0	.0	12.8	
7	.0	.2	.9	.0	.0	.0	1.1	
8-9	.0	.1	.2	.0	.0	.0	.2	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1230
TOT PCT	2.5	61.1	36.2	.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	15.4	21.3	6.8	1.0	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1088	3
6-7	.1	2.4	11.2	11.4	1.6	.4	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	653	4
8-9	.0	.8	2.1	3.0	1.6	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	5
10-11	.0	.5	.5	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	4
12-13	.0	.0	.7	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
>13	.0	.0	.0	.3	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDET	1.2	5.6	5.1	2.1	.3	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	345	3
TOTAL	59	585	970	581	118	37	15	3	2	0	0	0	0	0	0	0	0	0	0	2370	4
PCT	2.5	24.7	40.9	24.5	5.0	1.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

AREA 0006 RECIFE
9.15 34.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	12.2	10.0	.0	.0	.0	.0	.0	22.2	3.2	1.4	.0	.0	.0	.0	.0	73.3
NE	1.3	1.7	.4	.0	.0	.0	.0	3.4	.8	.8	.4	.0	.3	.0	.0	94.3
E	.5	1.8	.1	.0	.0	.0	.0	2.5	2.1	.7	.2	.0	.1	.1	.1	94.5
SE	.9	1.9	.4	.0	.0	.0	.0	3.2	1.2	.5	*	.0	*	.0	.0	95.0
S	1.1	2.2	1.3	.0	.0	.0	.0	4.7	2.9	.0	.7	.0	.7	.0	.0	91.1
SW	.0	.0	9.3	.0	.0	.0	.0	9.3	4.7	.0	.0	.0	.0	.0	.0	86.0
W	6.7	17.8	.0	.0	.0	.0	.0	24.4	.0	.0	.0	.0	.0	.0	.0	75.6
NW	18.2	.0	12.1	.0	.0	.0	.0	30.3	15.2	.0	.0	.0	.0	.0	.0	54.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	.0	.0	.0	.0	.0	.0	10.5	5.3	.0	.0	.0	.0	.0	.0	84.2
TOT PCT	1.0	2.0	.3	.0	.0	.0	.0	3.4	1.7	.6	.2	.0	.1	*		94.0
TOT OBS:	3846															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.9	1.3	.4	.0	.0	.0	.0	2.6	2.4	1.3	.1	.0	.0	.0	.0	93.6
06&09	1.1	2.6	.5	.0	.0	.0	.0	4.2	1.6	1.1	.3	.0	.1	.0	.0	92.6
12&15	1.0	2.1	.4	.0	.0	.0	.0	3.5	1.0	.2	.1	.0	.1	.0	.0	95.0
18&21	1.2	2.0	.1	.0	.0	.0	.0	3.3	1.9	.1	.2	.0	.2	.1	.0	94.3
TOT PCT	1.1	2.0	.3	.0	.0	.0	.0	3.4	1.7	.6	.2	.0	.1	*		93.9
TOT OBS:	3883															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.8	.6	.1	.0	.0		1.4	10.4	1.1	.8	1.2	1.7	2.2	1.6	1.9	.9
NE	.3	7.6	4.0	.1	.0	.0		12.0	9.8	15.0	10.5	12.4	10.5	14.7	12.2	13.0	8.8
E	1.2	27.9	14.3	.4	.0	.0		43.8	9.8	49.3	41.7	44.4	41.5	50.4	42.2	43.6	40.8
SE	1.6	23.5	13.7	.5	*	.0		39.2	10.0	31.5	43.5	38.8	42.1	29.3	40.1	38.0	45.7
S	.2	1.6	.6	*	.0	.0		2.4	8.9	2.2	2.5	2.0	2.4	2.4	2.3	2.3	3.1
SW	.1	.1	*	.0	.0	.0		.2	6.0	.2	.3	.1	.2	.2	.2	.2	.3
W	.1	.1	*	.0	.0	.0		.1	5.7	.1	.0	.1	.5	.1	.1	.1	.2
NW	*	.1	.1	*	.0	.0		.2	9.0	.0	.1	.3	.5	.2	.4	.2	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.6	.5	.8	.6	.4	.8	.5	.1
TOT OBS	439	6573	3543	118	1	0	10674		9.8	868	1132	1874	1194	856	1545	1913	1292
TOT PCT	4.1	61.6	33.2	1.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.9	.2	*	.0		1.4	10.4	1.0	1.4	1.8	1.5
NE	2.8	8.3	.9	*	.0		12.0	9.8	12.5	11.6	13.1	11.3
E	9.0	31.7	2.9	.1	.0		43.8	9.8	45.0	43.3	45.1	42.5
SE	8.7	26.9	3.5	*	.0		39.2	10.0	38.3	40.1	36.3	41.1
S	.9	1.4	.2	.0	.0		2.4	8.9	2.4	2.2	2.4	2.6
SW	.1	.1	.0	.0	.0		.2	6.0	.3	.1	.2	.3
W	.1	*	*	.0	.0		.1	5.7	.1	.2	.1	.2
NW	.1	.1	*	.0	.0		.2	9.0	.1	.3	.3	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.6	.7	.7	.3
TOT OBS	2427	7412	823	12	0	10674		9.8	2000	3068	2401	3205
TOT PCT	22.7	69.4	7.7	.1	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

AREA 0006 RECIFE
9.1S 34.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.6	2.5	63.4	32.3	1.3	.0	.0	9.9	100.0	2000
06&09	.7	3.6	61.9	32.5	1.3	.0	.0	9.8	100.0	3068
12&15	.7	4.0	56.7	37.4	1.2	*	.0	10.0	100.0	2401
18&21	.3	3.8	63.8	31.3	.7	.0	.0	9.5	100.0	3205
TOT	60	379	6573	3543	118	1	0	9.8		10674
PCT	.6	3.6	61.6	33.2	1.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.2	.5	.4		4.8
NE	7.6	4.7	3.3	.9		3.1
E	19.8	16.8	11.4	2.7		3.3
SE	11.0	9.5	6.0	1.4		3.3
S	.9	.8	.4	.3		3.5
SW	*	*	*	.1		5.9
W	.0	.0	*	.1		7.2
NW	.0	.0	*	.1		7.6
VAR	.0	.0	.0	.0		.0
CALM	.3	*	.1	*		2.2
TOT OBS	1109	887	603	165	2764	3.3
TOT PCT	40.1	32.1	21.8	6.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.2	.2	.1	.1	.0	*	.0	.9	
NE	*	.0	.1	.6	.8	.3	.2	*	*	*	14.4	
E	.1	.0	.2	1.3	2.5	1.4	.7	.1	.1	.1	44.2	
SE	.0	.0	.1	1.0	1.8	.6	.4	.1	*	*	23.9	
S	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	2.1	
SW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
W	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.4	
TOT OBS	3	0	12	93	147	75	36	6	6	5	2381	2764
TOT PCT	.1	.0	.4	3.4	5.3	2.7	1.3	.2	.2	.2	86.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.5	1.9	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	3.8	4.5	4.6	4.6	4.7	4.7	4.7	4.7
* OR >1000	8.6	9.8	10.0	10.0	10.0	10.0	10.0	10.0
* OR >600	10.9	12.9	13.4	13.4	13.5	13.5	13.5	13.5
* OR >300	11.1	13.2	13.9	13.9	13.9	13.9	13.9	13.9
* OR >150	11.1	13.2	13.9	13.9	13.9	13.9	13.9	13.9
* OR > 0	11.1	13.3	14.0	14.0	14.0	14.0	14.0	14.0
TOTAL	307	368	386	386	387	387	387	387

TOTAL NUMBER OF OBS: 2765

PCT FREQ NH <5/8: 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.3	20.1	28.1	22.8	8.8	4.6	3.4	2.7	3.1	.1	2938

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	*	.1	.1	.1	.0	.0	*	*	.0	.0	.3	
2<5	NO PCP	*	*	.4	.5	.0	*	*	*	.0	.0	1.0	
	TOT %	*	.1	.5	.6	.0	*	*	*	.0	.0	1.3	
	PCP	.1	.2	.5	.3	.1	.0	*	.0	.0	*	1.3	
5<10	NO PCP	.2	1.5	6.0	4.1	.3	*	.1	*	.0	.0	12.2	
	TOT %	.4	1.6	6.5	4.3	.4	*	.1	*	.0	*	13.5	
	PCP	.1	.2	.5	.5	.1	*	*	.1	.0	*	1.6	
10+	NO PCP	.9	12.7	41.1	25.4	2.4	.2	.1	.1	.0	.4	83.4	
	TOT %	1.0	13.0	41.6	26.0	2.5	.2	.1	.2	.0	.5	85.0	
	TOT OBS												3837
	TOT PCT	1.4	14.7	48.6	31.0	2.9	.3	.3	.2	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	*	.0	*	*	.0	.0	*	.1	
1<2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.1	.0	*	*	.0	.0	*	.2	
	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	*	*	.3	.3	*	*	*	*	.0		.7	
	11-21	.0	*	.2	.2	.0	*	*	*	.0		.4	
	22+	*	*	*	.0	.0	.0	.0	*	.0		*	
	TOT %	*	.1	.5	.5	*	*	*	*	.0	.0	1.2	
	0-3	*	*	.2	.1	*	*	*	.0	.0	*	.5	
5<10	4-10	.1	.7	3.1	2.3	.2	*	*	*	.0		6.5	
	11-21	.1	.5	1.4	1.4	.1	.0	.0	.0	.0		3.5	
	22+	*	*	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.3	1.2	4.8	3.8	.3	*	.1	*	.0	*	10.6	
	0-3	*	.3	.9	1.5	.1	.1	.1	*	.0	.4	3.4	
10+	4-10	.8	8.3	27.4	20.3	1.5	.1	*	*	.0		58.5	
	11-21	.6	4.0	11.9	8.7	.4	*	*	.1	.0		25.8	
	22+	*	*	.1	.1	*	.0	.0	.0	.0		.2	
	TOT %	1.4	12.7	40.2	30.6	2.0	.2	.1	.2	.0	.4	87.9	
	TOT OBS												6533
	TOT PCT	1.7	14.0	45.6	35.1	2.4	.3	.2	.2	.0	.5	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.1	1.8	3.8	2.0	.8	.0	.0	.1	8.7	91.3	735
06&09	.3	.0	.6	3.5	5.4	2.0	.8	.0	.3	.0	12.8	87.2	666
12&15	.0	.0	.5	4.1	6.1	3.9	1.3	.4	.0	.4	16.8	83.2	750
18&21	.1	.0	.4	3.6	5.3	2.5	2.1	.4	.5	.1	15.1	84.9	770
TOT	3	0	12	95	151	76	37	6	6	5	391	2530	2921
PCT	.1	.0	.4	3.3	5.2	2.6	1.3	.2	.2	.2	13.4	86.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.4	12.3	86.2	1345
06&09	.1	.1	.2	1.2	10.6	87.8	1774
12&15	.0	.1	.1	.7	9.4	89.6	1495
18&21	.0	.2	.4	1.5	10.8	87.1	1956
TOT	1	7	13	80	707	5762	6570
PCT	*	.1	.2	1.2	10.8	87.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.1	2.9	6.7	90.4	691
06&09	.3	1.3	5.9	8.8	85.3	614
12&15	.0	.6	5.2	12.1	82.6	725
18&21	.1	.5	5.0	11.2	83.8	735
TOT	3	17	131	270	2364	2765
PCT	.1	.6	4.7	9.8	85.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	*	.0	.0	1	*
90/94	.0	.0	*	.2	.4	.1	.1	*	27	.8
85/89	.0	.0	.0	.4	2.7	3.7	1.2	.4	268	8.4
80/84	.0	.0	.0	.2	8.0	43.6	22.7	5.8	2554	80.3
75/79	.0	.0	.0	.0	.1	2.8	4.8	2.4	322	10.1
70/74	.0	.0	.0	.0	.0	.0	.1	.2	8	.3
TOTAL	0	0	1	22	358	1600	917	282	3180	100.0
PCT	.0	.0	*	.7	11.3	50.3	28.8	8.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.0	.0	.0	.0	.0	.0	.0
.0	.1	.3	.4	.1	.0	.0	.0	.0	*
.3	1.6	3.6	2.7	.1	*	.1	.0	.0	.1
.8	11.6	40.1	25.0	2.1	.2	.1	.1	.0	.3
.3	1.2	4.6	3.2	.6	*	.1	.1	.0	.2
*	.1	*	.1	.0	.0	*	*	.0	.0
1.5	14.5	48.6	31.3	2.8	.2	.3	.2	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	84	82	80	78	76	70	80.4	1985
06&09	90	85	83	80	78	76	70	80.3	3029
12&15	95	90	86	82	80	77	74	82.6	2312
18&21	99	89	86	82	79	77	72	81.9	3113
TOT	99	88	85	81	78	76	70	81.3	10439

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	2.3	56.0	33.3	8.2	80	696
06&09	.0	.0	2.2	48.9	37.0	11.9	81	801
12&15	.0	1.1	18.1	50.6	22.6	7.6	76	811
18&21	.0	1.4	19.9	46.6	24.0	8.0	76	899
TOT	0	23	360	1611	927	286	78	3207

PERIOD: (PRIMARY) 1914-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	.1	5	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	4	.0	.1
7/8	.0	.0	*	.0	.2	.3	*	19	.0	.6
6	.0	.0	.0	*	.5	.2	.0	22	.0	.7
5	.0	.0	.0	.1	.5	.1	.0	24	.0	.8
4	.0	.0	.1	.6	1.4	.1	.0	66	.0	2.1
3	.0	.0	.1	.9	1.7	.0	.0	84	.0	2.7
2	.0	.0	.2	4.9	1.2	.0	.0	196	.0	6.3
1	.0	.0	.7	9.1	1.0	.0	.0	336	*	10.7
0	.0	.0	2.6	17.7	.4	.0	.0	646	.1	20.6
-1	.0	.0	7.7	15.0	.1	.0	.0	714	.1	22.8
-2	*	.1	7.5	6.7	.1	.0	.0	448	.0	14.3
-3	.0	.1	4.9	3.5	.0	.0	.0	263	.0	8.4
-4	.0	.1	3.1	1.4	.0	.0	.0	147	.0	4.7
-5	*	.1	2.0	.8	.0	.0	.0	90	.0	2.9
-6	.0	.3	.6	.1	.0	.0	.0	28	.0	.9
-7/-8	.0	.3	.4	.0	.0	.0	.0	23	.0	.7
-9/-10	.0	.1	.0	.1	.0	.0	.0	5	.0	.2
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		930		223		7		6	3117
		32		1903		25		3123		
PCT	.1	1.0	29.8	60.9	7.1	.8	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.1	.0	.0	.0	.1
1-2	.0	.5	.3	.0	.0	.0	.8
3-4	.0	.6	.4	.0	.0	.0	1.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.3	.1	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	*	.0	.0	.0	.6
1-2	.2	5.9	2.2	.0	.0	.0	8.3
3-4	.0	3.5	3.2	.0	.0	.0	6.7
5-6	.0	.3	1.2	.1	.0	.0	1.6
7	.0	.0	.6	*	.0	.0	.6
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	10.2	7.2	.1	.0	.0	17.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.8	.3	.0	.0	.0	2.5
1-2	.4	18.9	4.0	.0	.0	.0	23.3
3-4	.1	9.9	7.1	.1	.0	.0	17.2
5-6	.0	1.4	4.1	.1	.0	.0	5.6
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	32.1	15.9	.4	.0	.0	49.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.3	9.1	2.7	.0	.0	.0	12.1
3-4	.1	5.9	3.7	.0	.0	.0	9.7
5-6	.0	1.0	3.3	.2	.0	.0	4.4
7	.0	.3	.3	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	16.5	10.0	.2	.0	.0	27.4

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.1	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.4	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.2	.1	.0	.0	.0	.2	.0	*	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.1	.0	.0	.0	.2	.0	*	.3	.0	.0	.0	.3	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	*0-3*	*4-10*	*11-21*	*22-33*	34-47	48+	PCT	TOT OBS
<1	2.0	2.9	.3	.0	.0	.0	5.2	
1-2	.9	34.6	9.3	.0	.0	.0	44.8	
3-4	.3	20.6	14.7	.1	.0	.0	35.6	
5-6	.0	2.6	9.3	.3	.0	.0	12.2	
7	.0	.3	1.3	.2	.0	.0	1.7	
8-9	.0	.1	.1	.3	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	61.1	34.9	.8	.0	.0	100.0	1187

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	15.7	21.0	6.0	.9	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1051	3
6-7	.0	3.1	11.8	10.2	3.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	678	4
8-9	.0	.5	2.9	2.5	1.4	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	5
10-11	.0	.8	.4	.5	.4	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
12-13	.0	.0	1.3	.5	.4	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	5
>13	.0	.0	.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
INDET	1.2	3.4	4.0	1.6	.9	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	3
TOTAL	60	539	950	501	181	46	8	3	5	0	0	0	0	0	0	0	0	0	0	2293	4
PCT	2.6	23.5	41.4	21.8	7.9	2.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

AREA 0006 RECIFE
9.15 34.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	5.5	1.4	.0	.0	.0	.0	.0	6.9	4.1	2.8	.0	.0	.0		.0	86.2
NE	2.2	2.1	.4	.0	.0	.0	.0	4.4	3.3	1.3	.0	.0	.2		.0	90.9
E	1.2	3.3	.2	.0	.0	.0	.0	4.7	4.1	1.4	.4	.0	.0		.0	89.6
SE	1.4	2.1	.3	.0	.0	.0	.0	3.8	3.6	.7	*	.0	.1		.0	91.7
S	2.8	1.0	.0	.0	.0	.0	.0	3.8	4.1	.0	.0	.0	.0		.0	92.2
SW	1.1	.0	4.5	.0	.0	.0	.0	5.6	5.6	.0	.0	.0	.0		.0	88.8
W	5.0	10.0	.0	.0	.0	.0	.0	15.0	8.8	.0	.0	.0	.0		.0	76.3
NW	1.4	11.3	.0	.0	.0	.0	.0	12.7	.0	.0	.0	.0	.0		.0	87.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	8.8	2.9	.0	.0	2.9		.0	85.3
TOT PCT	1.5	2.6	.3	.0	.0	.0	.0	4.4	3.9	1.1	.2	.0	.1		.0	90.4
TOT OBS:	3972															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00603	1.5	2.3	.4	.0	.0	.0	.0	4.1	4.3	3.2	.2	.0	.0		.0	88.3
06609	1.7	3.4	.3	.0	.0	.0	.0	5.2	4.2	1.6	.3	.0	.3		.0	88.5
12615	2.2	2.3	.3	.0	.0	.0	.0	4.7	3.9	.0	.1	.0	.1		.0	91.2
18621	1.2	2.7	.2	.0	.0	.0	.0	3.9	3.5	.1	.1	.0	.0		.0	92.4
TOT PCT	1.6	2.7	.3	.0	.0	.0	.0	4.5	4.0	1.1	.2	.0	.1		.0	90.3
TOT OBS:	4023															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.5	.2	*	.0	.0		.9	8.8	.9	.6	.8	.9	1.6	1.6	.9	.5
NE	.5	6.6	2.9	.1	*	.0		10.1	9.3	10.7	8.7	10.0	9.2	12.6	9.8	11.5	8.8
E	1.6	26.8	12.0	.3	*	.0		40.7	9.4	47.6	38.5	41.7	38.3	44.0	39.7	40.5	38.4
SE	1.3	26.5	14.6	.6	*	.0		43.2	9.9	36.6	48.6	43.3	44.5	36.3	43.2	42.1	47.2
S	.2	2.2	.9	*	.0	.0		3.4	9.0	3.6	2.7	2.7	3.2	3.8	3.7	3.4	4.2
SW	.1	.2	*	.0	.0	.0		.4	5.8	.0	.3	.2	.9	.4	.6	.3	.3
W	*	.2	*	.0	.0	.0		.3	6.1	.1	.1	.2	1.0	.5	.3	.2	*
NW	.1	.2	*	*	.0	.0		.3	6.7	.1	.1	.1	.9	.4	.5	.3	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.4	.5	.9	1.2	.4	.6	.8	.6
TOT OBS	525	7062	3433	128	4	0	11152		9.5	850	1179	1958	1300	918	1564	2033	1350
TOT PCT	4.7	63.3	30.8	1.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.5	.1	*	.0		.9	8.8	.7	.9	1.6	.7
NE	2.6	7.0	.5	*	.0		10.1	9.3	9.5	9.7	10.8	10.4
E	10.1	28.3	2.2	.1	.0		40.7	9.4	42.3	40.4	41.3	39.6
SE	9.6	30.0	3.4	.1	.0		43.2	9.9	43.6	43.8	40.7	44.2
S	1.0	2.1	.2	.0	.0		3.4	9.0	3.1	2.9	3.8	3.7
SW	.3	.1	*	.0	.0		.4	5.8	.1	.5	.5	.3
W	.2	.1	.0	.0	.0		.3	6.1	.1	.5	.4	.1
NW	.2	.1	*	.0	.0		.3	6.7	.1	.4	.5	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.4	1.0	.5	.7
TOT OBS	2806	7604	719	23	0	11152		9.5	2029	3258	2482	3383
TOT PCT	25.2	68.2	6.4	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	2.8	63.4	32.2	1.2	.0	.0	9.7	100.0	2029
06&09	1.0	4.5	62.6	30.3	1.4	.1	.0	9.5	100.0	3258
12&15	.5	3.7	61.6	32.8	1.2	*	.0	9.7	100.0	2482
18&21	.7	4.4	65.2	28.9	.8	.0	.0	9.3	100.0	3383
TOT	79	446	7062	3433	128	4	0	9.5		11152
PCT	.7	4.0	63.3	30.8	1.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.2	.4	.1		4.3
NE	4.4	4.1	3.5	1.0		3.8
E	14.5	14.8	13.8	3.5		3.9
SE	9.5	11.6	10.8	2.2		3.9
S	.7	1.0	1.2	.4		4.5
SW	*	.1	.1	*		5.1
W	*	.2	.3	*		5.0
NW	*	.1	.2	.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.3	.4	*		4.7
TOT OBS	855	940	889	213	2897	3.9
TOT PCT	29.5	32.4	30.7	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.1	.1	.0	*	.0	.0	.8	
NE	.0	*	.1	.5	.8	.5	.2	*	.0	.1	10.9	
E	.1	.0	.3	2.1	3.0	2.0	.6	.2	.1	.0	38.2	
SE	.0	.0	.2	1.9	2.6	1.2	.6	.2	.1	.1	27.3	
S	.0	.0	*	.5	.3	.2	.0	.0	*	*	2.3	
SW	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
W	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5	
NW	.0	.0	*	*	.1	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.5	
TOT OBS	3	1	19	153	200	120	39	11	9	6	2336	2897
TOT PCT	.1	*	.7	5.3	6.9	4.1	1.3	.4	.3	.2	80.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	5.2	6.2	6.4	6.5	6.5	6.5	6.5	6.5
* OR >1000	10.8	12.8	13.2	13.3	13.3	13.4	13.4	13.4
* OR >600	15.1	18.0	18.4	18.6	18.6	18.6	18.6	18.6
* OR >300	15.4	18.6	19.1	19.3	19.3	19.3	19.3	19.3
* OR >150	15.4	18.6	19.1	19.3	19.3	19.3	19.3	19.3
* OR > 0	15.5	18.7	19.2	19.4	19.4	19.4	19.4	19.4
TOTAL	451	544	559	565	565	566	566	566

TOTAL NUMBER OF OBS: 2913

PCT FREQ NH <5/8: 80.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.4	15.8	26.3	22.3	12.8	6.6	5.6	3.4	3.7	.1	3042

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	*	.1	
	TOT %	*	*	.1	.1	*	.0	.0	.0	.0	*	.3	
	PCP	.0	*	.2	.2	.1	*	*	.0	.0	.0	.5	
2<5	NO PCP	.0	.1	.4	.3	.1	*	.1	*	.0	.0	1.0	
	TOT %	.0	.1	.6	.4	.2	*	.1	*	.0	.0	1.5	
	PCP	*	.2	.9	.5	*	*	*	*	.0	.0	1.7	
5<10	NO PCP	*	1.0	5.3	5.4	.6	.1	.2	.1	.0	.1	12.9	
	TOT %	.1	1.2	6.2	5.9	.7	.2	.2	.1	.0	.1	14.6	
	PCP	.0	.3	.9	.6	*	.0	*	.1	.0	.0	1.9	
10+	NO PCP	.8	10.4	37.4	28.4	2.9	.4	.2	.3	.0	.7	81.6	
	TOT %	.8	10.6	38.4	29.0	3.0	.4	.2	.4	.0	.7	83.5	
	TOT OBS												3961
	TOT PCT	.9	12.0	45.4	35.5	3.9	.6	.5	.4	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
1<2	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.1	
	11-21	*	*	*	.1	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.2	*	.0	.0	.0	.0	*	.4	
	0-3	.0	*	*	*	.0	.0	.0	.0	.0	*	.1	
2<5	4-10	.0	*	.3	.3	.1	*	*	.0	.0		.7	
	11-21	.0	*	.3	.2	.1	*	*	*	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.6	.5	.1	*	.1	*	.0	*	1.4	
	0-3	*	.1	.2	.2	*	*	*	*	.0	.1	.7	
5<10	4-10	*	.6	3.4	3.0	.4	.1	.1	*	.0		7.6	
	11-21	*	.2	1.4	1.8	.2	.0	.0	.0	.0		3.6	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	.9	4.9	5.1	.5	.1	.1	.1	.0	.1	12.0	
	0-3	.1	.5	1.5	1.2	.2	.1	*	.1	.0	.5	4.3	
10+	4-10	.5	6.3	26.0	23.0	1.9	.2	.1	.1	.0		58.1	
	11-21	.2	2.7	10.0	9.8	.7	.1	*	*	.0		23.4	
	22+	*	.1	.1	.1	*	.0	.0	.0	.0		.3	
	TOT %	.9	9.5	37.5	34.1	2.8	.4	.2	.2	.0	.5	86.1	
	TOT OBS												6910
	TOT PCT	1.0	10.6	43.2	39.9	3.5	.5	.4	.3	.0	.6	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.0	.8	3.9	6.9	4.9	.7	.4	.3	.1	18.3	81.7	711
06&09	.1	.0	.7	6.3	5.8	3.7	1.3	.7	.6	.1	19.3	80.7	709
12&15	.0	.1	.6	5.1	6.9	3.7	1.8	.3	.1	.1	18.8	81.2	781
18&21	.1	.0	.4	5.0	7.1	3.8	1.6	.2	.2	.4	18.8	81.2	818
TOT	3	1	19	154	202	121	41	12	9	6	568	2451	3019
PCT	.1	*	.6	5.1	6.7	4.0	1.4	.4	.3	.2	18.8	81.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.4	1.9	13.4	84.3	1351
06&09	.1	.1	.4	1.3	13.4	84.9	1981
12&15	.1	.0	.4	1.1	9.8	88.6	1584
18&21	*	.1	.3	1.7	11.7	86.1	2045
TOT	5	3	25	101	842	5985	6961
PCT	.1	*	.4	1.5	12.1	86.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.0	7.1	13.3	79.6	677
06&09	.1	1.0	8.9	12.0	79.1	689
12&15	.0	.9	6.9	12.6	80.5	754
18&21	.1	.5	6.3	13.4	80.3	793
TOT	3	25	211	374	2328	2913
PCT	.1	.9	7.2	12.8	79.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.1	.0	.0	.0	5	.2
90/94	.0	.0	.0	.1	.4	.1	.1	*	23	.7
85/89	.0	.0	.0	.2	3.0	4.4	1.5	.8	325	9.9
80/84	.0	.0	.0	.2	6.5	42.9	23.7	7.2	2654	80.5
75/79	.0	.0	.0	.0	.0	1.4	4.1	3.1	285	8.6
70/74	.0	.0	.0	.0	.0	.0	.0	.2	5	.2
TOTAL	0	0	1	16	329	1609	971	371	3297	100.0
PCT	.0	.0	*	.5	10.0	48.8	29.5	11.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.1	*	.0	.0	.0	.0	.0
.0	.1	.4	.2	.1	.0	.0	.0	.0	.0
.2	1.2	4.7	2.9	.6	.1	*	*	.0	.2
.5	9.6	36.6	30.2	2.4	.4	.1	.3	.0	.3
.2	.8	3.6	2.7	.7	.1	.1	.1	.0	.3
*	*	*	*	*	.0	.0	*	.0	.0
1.0	11.7	45.3	36.1	3.8	.6	.3	.4	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	84	83	81	78	76	72	80.7	2013
06&09	90	85	83	81	78	75	71	80.7	3215
12&15	95	90	87	83	79	76	73	82.9	2411
18&21	95	89	86	82	79	76	72	82.1	3300
TOT	95	88	85	81	78	76	71	81.6	10939

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	4.1	47.4	38.6	9.7	80	677
06&09	.0	.1	3.8	48.1	33.7	14.2	81	887
12&15	.0	.6	13.8	50.0	23.4	12.2	78	852
18&21	.0	1.1	16.3	49.0	24.5	9.1	77	925
TOT	0	17	331	1627	986	380	79	3341

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	*	1	.0	*
9/10	.0	.0	.0	*	.1	.1	7	.0	.2
7/8	.0	.0	*	.2	.3	.0	19	.0	.6
6	.0	.0	.0	.2	.2	.0	16	.0	.5
5	.0	.0	.2	.8	.1	.0	37	.0	1.1
4	.0	*	.5	1.3	*	.0	62	.0	1.8
3	.0	*	.9	1.5	.0	.0	82	.0	2.4
2	.0	.1	4.6	1.5	.0	.0	209	.0	6.2
1	.0	.3	8.8	1.5	.0	.0	355	.0	10.6
0	.0	1.3	15.4	.5	*	.0	576	.1	17.1
-1	.0	3.5	18.6	.3	.0	.0	753	*	22.4
-2	.0	5.2	10.5	.1	.0	.0	531	*	15.8
-3	.0	4.6	4.8	.0	.0	.0	315	*	9.4
-4	.0	4.3	1.5	*	.0	.0	196	*	5.8
-5	.1	1.8	.8	*	.0	.0	93	.0	2.8
-6	.3	1.0	.2	.0	.0	.0	48	.0	1.4
-7/-8	.3	.6	.2	.0	.0	.0	39	.0	1.2
-9/-10	.4	.1	.0	.0	.0	.0	15	.0	.4
-11/-13	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	38	762	2252	273	27	5	3357	7	3350
PCT	1.1	22.7	67.1	8.1	.8	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.1	.3	.0	.0	.0	.0	.4
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.5	.3	.0	.0	.0	1.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.1	4.0	.9	.0	.0	.0	5.1
3-4	.1	2.5	2.3	.0	.0	.0	4.8
5-6	.0	.5	.9	.0	.0	.0	1.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.8	4.2	.0	.0	.0	12.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.2	.1	.0	.0	.0	3.7
1-2	.4	15.5	3.1	.0	.0	.0	19.1
3-4	.1	11.0	6.0	.0	.0	.0	17.0
5-6	.0	1.3	3.4	.0	.0	.0	4.7
7	.0	.3	.8	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	31.3	13.4	.0	.0	.0	45.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.2	.0	.0	.0	2.0
1-2	.4	13.0	2.1	.0	.0	.0	15.5
3-4	.1	6.3	6.1	.1	.0	.0	12.6
5-6	.0	1.0	2.5	.0	.0	.0	3.5
7	.0	*	.5	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.1	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	21.8	11.5	.3	.0	.0	34.4

MARCH

PERIOD: (OVER-ALL) 1963-1973 AREA 0006 RECIFE 9.1S 34.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.4	.0	*	*	.0	.0	.0	*
1-2	.1	1.8	.4	.0	.0	.0	2.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.2	.8	.0	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	1.5	.0	.0	.0	3.8	.0	.1	.2	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.4	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.4	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	6.1	.3	.0	.0	.0	9.6	
1-2	1.1	34.7	6.5	.0	.0	.0	42.4	
3-4	.2	20.2	15.5	.1	.0	.0	36.1	
5-6	.0	2.7	7.1	.0	.0	.0	9.9	
7	.0	.3	1.5	.2	.0	.0	2.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.1	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1237
TOT PCT	4.7	64.0	31.0	.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	15.0	21.1	6.8	1.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1118	3
6-7	.1	2.1	13.7	11.2	2.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	736	4
8-9	.0	.6	2.1	3.5	1.5	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	5
10-11	.0	.2	.6	.9	.2	.5	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
12-13	.0	.0	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
>13	.0	.0	.0	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
INDET	1.8	3.5	3.7	1.6	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	3
TOTAL	88	524	1020	602	153	39	9	2	0	0	0	0	0	0	0	0	0	0	0	2437	4
PCT	3.6	21.5	41.9	24.7	6.3	1.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.3	3.0	.0	.0	.0	.0	.0	7.4	1.7	1.3	.0	.0	.0	.0		89.6
NE	2.8	3.1	.4	.0	.0	.0	.0	6.3	1.9	.7	1.3	.0	.0	.0		89.9
E	2.6	3.9	.3	.0	.0	.0	.0	6.9	3.9	.8	1.1	.0	.0	.0		87.4
SE	1.7	3.7	.4	.0	.0	.0	.0	5.8	4.7	.6	.5	.0	.1	.1		88.4
S	3.4	6.4	.2	.0	.0	.0	.0	10.0	3.2	.6	.3	.0	.7	.0		85.2
SW	8.2	4.4	.0	.0	.0	.0	.0	12.6	5.5	.0	.0	.0	1.1	.0		80.8
W	3.9	.0	.0	.0	.0	.0	.0	3.9	3.9	.0	.0	.0	.0	.0		92.2
NW	8.1	12.9	.0	.0	.0	.0	.0	21.0	14.5	1.6	.0	.0	.0	.0		62.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.4	7.3	.0	.0	.0	.0	.0	9.8	7.3	2.4	.0	.0	2.4	.0		78.0
TOT PCT	2.5	4.0	.3	.0	.0	.0	.0	6.8	4.1	.7	.7	.0	.1	*		87.6
TOT OBS:	3794															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.0	3.8	.4	.0	.0	.0	.0	6.1	4.7	2.6	.5	.0	.1		.0	86.0
06&09	3.5	4.9	.5	.0	.0	.0	.0	8.9	4.6	.7	.9	.0	.1		.1	84.8
12&15	1.8	4.4	.4	.0	.0	.0	.0	6.6	2.6	.0	.5	.0	.2		.0	90.0
18&21	2.3	2.9	.1	.0	.0	.0	.0	5.3	4.5	.2	.8	.0	.1		.0	89.1
TOT PCT	2.4	4.0	.3	.0	.0	.0	.0	6.7	4.1	.8	.7	.0	.1		*	87.6
TOT OBS:	3857															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.6	.2	*	.0	.0		.8	7.9	.7	.8	.8	.7	2.0	1.0	.7	.2
NE	.5	4.0	1.5	*	.0	.0		6.0	8.6	7.6	5.0	6.2	6.0	7.7	5.9	6.2	4.6
E	1.4	20.3	10.6	.4	.0	.0		32.7	9.6	35.6	32.5	34.0	31.1	35.7	31.3	32.9	29.7
SE	1.7	29.6	19.1	.8	*	.0		51.3	10.2	45.7	55.2	50.8	52.1	44.7	52.7	50.2	55.8
S	.6	4.0	2.2	.1	*	.0		6.9	9.2	8.0	5.2	6.3	7.1	7.2	5.9	7.8	8.3
SW	.2	.5	.2	.0	.0	.0		.8	7.4	.8	.4	.4	1.5	.7	1.4	.8	.8
W	.1	.2	*	*	.0	.0		.3	6.4	.3	.1	.3	.5	.2	.6	.3	.1
NW	*	.2	.1	.0	.0	.0		.3	7.4	.1	.1	.2	.4	.5	.6	.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.2	.6	1.1	.6	1.2	.5	.9	.4
TOT OBS	582	6395	3642	141	3	0	10763		9.7	844	1134	1906	1241	867	1535	1965	1271
TOT PCT	5.4	59.4	33.8	1.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.3	.5	*	.0	.0		.8	7.9	.8	.8	1.4	.5
NE	2.1	3.6	.3	.0	.0		6.0	8.6	6.1	6.1	6.5	5.6
E	8.4	22.0	2.3	*	.0		32.7	9.6	33.8	32.9	32.9	31.6
SE	11.4	34.3	5.4	.1	*		51.3	10.2	51.2	51.3	49.8	52.4
S	2.3	4.1	.5	*	.0		6.9	9.2	6.4	6.6	6.4	8.0
SW	.4	.4	*	.0	.0		.8	7.4	.6	.8	1.1	.8
W	.2	.1	*	.0	.0		.3	6.4	.2	.3	.4	.2
NW	.1	.1	*	.0	.0		.3	7.4	.1	.3	.6	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.9	.9	.7	.7
TOT OBS	2798	7012	933	19	1	10763		9.7	1978	3147	2402	3236
TOT PCT	26.0	65.1	8.7	.2	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	3.7	62.1	32.4	.9	.0	.0	9.6	100.0	1978
06&09	.9	4.3	59.0	34.3	1.5	.0	.0	9.8	100.0	3147
12&15	.7	5.1	56.2	36.4	1.5	.0	.0	9.9	100.0	2402
18&21	.7	5.0	60.5	32.4	1.3	.1	.0	9.6	100.0	3236
TOT	87	495	6395	3642	141	3	0	9.7		10763
PCT	.8	4.6	59.4	33.8	1.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	.8	.3		5.4
NE	2.5	2.5	2.0	1.1		4.0
E	11.1	12.2	10.6	3.4		3.9
SE	12.6	13.6	12.8	3.0		3.9
S	1.8	2.8	2.6	.7		4.2
SW	.1	*	.3	.3		5.9
W	*	.1	.2	.2		6.0
NW	.1	.1	.2	.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.4	.3	.1		3.7
TOT OBS	818	899	838	257	2812	4.0
TOT PCT	29.1	32.0	29.8	9.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.0	.1	.2	.2	.1	.1	.0	.0	1.0	
NE	*	*	.1	.4	.8	.2	.3	.1	.0	.0	6.2	
E	.2	.1	.4	1.9	2.7	1.8	.6	.3	*	.0	29.4	
SE	.1	.0	.3	1.8	3.5	1.7	.8	.4	*	*	33.5	
S	*	.0	.1	.5	1.0	.4	.1	.1	.0	.0	5.9	
SW	.0	.0	*	*	.2	.2	.0	.0	.0	.0	.3	
W	.1	.0	.0	.0	*	*	*	*	.0	.0	.3	
NW	*	.0	.0	*	.1	.1	*	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	*	*	.0	.0	.0	.0	1.1	
TOT OBS	11	4	23	137	238	127	54	25	1	1	2191	2812
TOT PCT	.4	.1	.8	4.9	8.5	4.5	1.9	.9	*	*	77.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
= OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.4	2.8	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	5.9	7.0	7.2	7.4	7.4	7.4	7.4	7.4
= OR >1000	12.7	15.3	15.7	15.9	15.9	16.0	16.0	16.0
= OR >600	16.3	20.0	20.6	20.8	20.8	20.9	20.9	20.9
= OR >300	16.9	20.7	21.4	21.6	21.7	21.7	21.7	21.7
= OR >150	17.0	20.8	21.5	21.8	21.8	21.8	21.8	21.8
= OR > 0	17.0	21.0	21.9	22.1	22.1	22.2	22.2	22.2
TOTAL	483	596	621	628	629	630	631	631

TOTAL NUMBER OF OBS: 2840

PCT FREQ NH <5/8: 77.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	15.9	24.6	21.3	11.9	6.7	5.6	4.3	5.3	.3	2992

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	*	.0	.0	.0	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	*	.1	.1	*	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	*	.1	.0	.0	.0	.0	.3	
2<5	PCP	*	.1	.3	.3	*	*	.0	*	.0	.0	.8	
	NO PCP	.0	.1	.5	.5	.1	.1	*	.0	.0	*	1.3	
	TOT %	*	.1	.7	.9	.1	.1	*	*	.0	*	2.1	
5<10	PCP	*	.3	1.1	.9	.4	.1	*	*	.0	*	2.9	
	NO PCP	.3	.9	4.4	5.7	1.5	.2	.1	.1	.0	*	13.1	
	TOT %	.4	1.1	5.5	6.6	1.9	.2	.1	.1	.0	.1	16.0	
10+	PCP	*	.1	1.0	1.2	.5	*	.0	.0	.0	.1	2.8	
	NO PCP	1.1	6.3	27.9	34.3	6.7	.8	.4	.2	.0	.9	78.6	
	TOT %	1.1	6.4	28.9	35.4	7.2	.9	.4	.2	.0	1.0	81.4	
	TOT OBS												3790
	TOT PCT	1.5	7.7	35.3	43.1	9.2	1.2	.5	.4	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.1	*	.1	*	*	*	.0	.0		.2	
	11-21	.0	*	*	.1	*	*	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.2	.1	*	*	*	.0	*	.5	
2<5	0-3	*	*	*	.1	*	*	*	.0	.0	*	.2	
	4-10	*	.1	.4	.5	.1	.1	*	*	.0		1.2	
	11-21	*	*	.2	.2	.1	*	*	.0	.0		.5	
	22+	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	TOT %	*	.2	.6	.9	.2	.1	*	*	.0	*	2.0	
5<10	0-3	*	.1	.2	.1	.2	*	.1	*	.0	.1	.7	
	4-10	.2	.5	2.5	3.5	.8	.1	*	.1	.0		7.6	
	11-21	.1	.3	1.6	2.5	.5	*	.0	*	.0		5.0	
	22+	.0	.0	.1	.1	*	.0	.0	.0	.0		.2	
	TOT %	.3	.9	4.3	6.1	1.5	.2	.1	.1	.0	.1	13.5	
10+	0-3	.1	.5	1.2	1.9	.6	.2	*	*	.0	.8	5.4	
	4-10	.6	3.9	19.3	25.7	3.6	.4	.2	.1	.0		53.8	
	11-21	.1	1.4	8.5	12.5	1.6	.1	*	*	.0		24.2	
	22+	*	*	.1	.2	.1	.0	.0	.0	.0		.5	
	TOT %	.8	5.9	29.2	40.3	5.8	.6	.2	.2	.0	.8	83.9	
	TOT OBS												6590
	TOT PCT	1.1	7.0	34.3	47.5	7.5	.9	.4	.3	.0	.9	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

AREA 0006 RECIFE
9.15 34.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.1	1.0	5.2	5.4	3.7	1.9	.7	.0	.0	18.3	81.7	698
06&09	.8	.1	1.0	5.7	8.6	3.7	1.4	.8	.0	.0	22.2	77.8	706
12&15	.3	.1	.5	4.8	8.7	4.7	1.7	1.0	.0	.1	22.0	78.0	767
18&21	.1	.1	.6	3.4	9.8	4.9	2.4	1.0	.1	.0	22.6	77.4	788
TOT	11	4	23	140	243	127	55	27	1	1	632	2327	2959
PCT	.4	.1	.8	4.7	8.2	4.3	1.9	.9	*	*	21.4	78.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.3	2.4	14.3	82.8	1336
06&09	.1	.1	.5	2.0	13.7	83.6	1855
12&15	.0	.0	.7	1.4	12.6	85.3	1521
18&21	.1	.1	.5	2.2	13.6	83.6	1944
TOT	5	4	32	135	902	5578	6656
PCT	.1	.1	.5	2.0	13.6	83.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.8	8.9	11.5	79.6	671
06&09	.9	2.1	9.5	14.6	75.9	665
12&15	.3	.9	7.3	16.3	76.5	744
18&21	.1	1.1	5.7	18.3	76.1	760
TOT	11	41	220	434	2186	2840
PCT	.4	1.4	7.7	15.3	77.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.5	.1	*	*	26	.8
85/89	.0	.0	.0	.2	2.5	3.4	.9	.2	227	7.3
80/84	.0	.0	.0	.1	6.6	43.2	24.9	4.4	2453	79.2
75/79	.0	.0	.0	.0	.1	2.3	6.0	4.2	389	12.6
70/74	.0	.0	.0	.0	.0	.0	.0	.1	4	.1
TOTAL	0	0	0	15	300	1518	989	277	3099	100.0
PCT	.0	.0	.0	.5	9.7	49.0	31.9	8.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.2	.4	.1	.1	.0	.0	.0	.0
	.1	.7	2.4	3.0	.7	.1	.1	.1	.0	.1
	1.2	6.0	27.8	35.7	6.3	.7	.4	.2	.0	.8
	.1	.8	3.8	5.2	1.9	.4	.1	.1	.0	.1
	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
	1.4	7.5	34.3	44.4	9.1	1.3	.5	.4	.0	1.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	84	82	81	78	75	72	80.5	1970
06&09	90	85	83	80	77	75	70	80.3	3114
12&15	94	90	87	82	79	76	72	82.5	2349
18&21	94	89	86	82	78	76	73	81.7	3182
TOT	94	88	85	81	78	75	70	81.3	10615

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.9	51.1	36.3	9.5	80	653
06&09	.0	.0	4.6	43.5	38.9	12.9	81	819
12&15	.0	.7	14.9	49.8	27.7	6.9	77	806
18&21	.0	.9	14.4	51.7	26.2	6.8	77	869
TOT	0	15	302	1540	1007	283	79	3147

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	*	3	.0	.1
7/8	.0	.0	.0	.1	.2	.3	*	19	.0	.6
6	.0	.0	.0	*	.3	.2	.0	19	.0	.6
5	.0	.0	.0	.2	.7	.1	.0	32	.0	1.0
4	.0	.0	.0	.3	1.1	*	.0	45	*	1.4
3	.0	.0	.2	.5	1.3	*	.0	64	*	2.0
2	.0	.0	.1	3.1	1.4	.0	.0	146	.0	4.6
1	.0	.0	.4	7.1	1.1	.0	.0	276	.1	8.6
0	.0	.0	1.0	14.5	.3	.0	.0	507	.1	15.7
-1	.0	.0	3.1	17.6	.4	.0	.0	677	.3	20.8
-2	.0	.0	6.7	12.3	.1	.0	.0	612	.2	19.0
-3	.0	.1	6.8	4.5	.1	.0	.0	366	*	11.4
-4	.0	*	4.6	1.6	.0	.0	.0	197	.0	6.2
-5	.0	.2	2.8	.7	.0	.0	.0	119	.0	3.7
-6	.0	.4	1.3	.2	.0	.0	.0	62	.0	1.9
-7/-8	.0	.6	.6	.1	.0	.0	.0	41	.0	1.3
-9/-10	.0	.2	.2	.0	.0	.0	.0	10	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	.0	4	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	47	888	2016	221	24	3	3202	24	3178
PCT	.1	1.5	27.7	63.0	6.9	.7	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.2
1-2	.1	.6	.1	.0	.0	.0	.8
3-4	.0	.3	.7	.0	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.9	.1	.0	.0	2.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.2	3.6	.5	.0	.0	.0	4.3
3-4	.0	1.2	1.3	.0	.0	.0	2.5
5-6	.0	.2	.8	.1	.0	.0	1.1
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.5	2.7	.1	.0	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.7	.0	.0	.0	.0	3.3
1-2	.5	13.7	2.0	.0	.0	.0	16.2
3-4	.2	5.5	5.2	.0	.0	.0	11.0
5-6	.0	.9	2.1	.2	.0	.0	3.3
7	.0	.2	1.0	.0	.0	.0	1.1
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.1	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	23.2	10.5	.3	.0	.0	35.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.6	.2	.0	.0	.0	3.0
1-2	.6	15.9	3.4	.0	.0	.0	19.8
3-4	*	8.3	5.1	.2	.0	.0	13.7
5-6	.0	1.2	2.5	.1	.0	.0	3.8
7	.0	.1	.6	.0	.0	.0	.7
8-9	.0	*	.1	.0	.0	.0	.2
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	28.1	11.9	.3	.0	.0	41.2

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0006 RECIFE 9.1S 34.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
1-2	.3	3.1	1.5	.0	.0	.0	4.9	*	.4	*	.0	.0	.0	.5
3-4	.0	1.0	.9	.1	.0	.0	2.0	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.3	.3	.2	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.2	2.9	.2	.0	.0	8.7	*	.6	.1	.0	.0	.0	.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.1	.0	.0	.0	.0	.3	*	.3	.0	.0	.0	.0	.3	
1-2	.1	.4	.0	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.5	.0	.0	.0	.0	.7	.1	.6	.1	.0	.0	.0	.8	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	7.5	.2	.0	.0	.0	11.1	
1-2	1.9	37.6	7.5	.0	.0	.0	47.0	
3-4	.2	16.4	13.3	.3	.0	.0	30.3	
5-6	.0	2.6	5.8	.6	.0	.0	9.0	
7	.0	.2	1.7	.1	.0	.0	2.0	
8-9	.0	.1	.3	.0	.0	.0	.4	
10-11	.0	.1	.0	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1233
TOT PCT	5.7	64.4	28.9	1.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	13.6	19.5	7.2	1.3	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1027	3
6-7	*	2.5	10.9	10.9	2.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	648	4
8-9	.0	.8	2.6	2.7	2.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	5
10-11	.0	.5	.7	.6	.5	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	5
12-13	.0	.0	.6	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	5
>13	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	3.1	4.7	3.3	2.0	1.0	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350	3
TOTAL	111	519	885	562	185	63	21	3	0	0	0	0	0	0	0	0	0	0	0	2349	4
PCT	4.7	22.1	37.7	23.9	7.9	2.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	9.2	3.1	.0	.0	.0	.0	.0	12.3	3.1	.0	.0	.0	.0	.0	.0	84.6
NE	3.4	7.6	.0	.0	.0	.0	.0	11.0	5.0	.0	3.4	.0	.0	.0	.0	80.6
E	2.1	4.6	.4	.0	.0	.0	.0	7.0	5.7	.3	2.1	.0	.4	.1		84.6
SE	2.6	5.2	.8	.0	.0	.0	.0	8.6	6.0	.1	.6	.0	.1	*		84.7
S	5.2	3.3	1.1	.0	.0	.0	.0	9.6	9.5	.2	.6	.0	.0	.0		84.0
SW	7.1	.7	1.5	.0	.0	.0	.0	9.4	7.5	.0	.0	.0	.0	.0		83.1
W	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0		90.9
NW	12.1	36.4	12.1	.0	.0	.0	.0	48.5	.0	.0	.0	.0	.0	.0		51.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0		94.4
TOT PCT	2.9	4.8	.7	.0	.0	.0	.0	8.4	5.8	.2	1.1	.0	.2	*		84.3
TOT OBS:	3674															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.5	5.0	.5	.0	.0	.0	.0	7.1	5.8	.1	.9	.0	.0	.0		86.1
06&09	3.8	6.4	.8	.0	.0	.0	.0	11.1	5.3	.6	1.2	.0	.3	.1		81.6
12&15	3.6	4.6	.6	.0	.0	.0	.0	8.9	6.3	.0	.6	.0	.1	.0		84.1
18&21	2.6	3.6	.9	.0	.0	.0	.0	6.9	5.8	.0	1.6	.0	.2	.0		85.6
TOT PCT	2.9	4.9	.7	.0	.0	.0	.0	8.5	5.8	.2	1.1	.0	.2	*		84.3
TOT OBS:	3729															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.3	*	.0	.0	.0		.4	6.3	.4	.2	.4	.7	.2	.4	.5	.3
NE	.3	2.0	.8	*	.0	.0		3.1	8.6	3.4	2.4	3.8	3.2	3.9	3.1	2.9	2.3
E	1.0	12.8	10.5	.7	.0	.0		24.9	10.9	30.1	22.9	26.4	22.4	29.6	23.4	25.5	22.1
SE	1.3	24.3	29.6	3.2	.1	.0		58.5	12.1	54.3	62.0	57.8	59.4	54.3	59.7	57.5	60.4
S	.7	4.8	5.1	.5	*	.0		11.1	11.4	10.8	11.0	10.0	11.0	10.0	11.2	11.7	12.9
SW	.2	.7	.3	*	.0	.0		1.1	8.2	.5	.6	.6	2.0	1.0	1.6	1.2	1.4
W	*	.1	*	.0	.0	.0		.2	6.8	.0	.0	.2	.5	.3	.2	*	.2
NW	*	.1	.0	.0	.0	.0		.1	4.8	.0	.1	*	.3	.1	.0	.2	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.5	.8	.8	.5	.6	.4	.6	.3
TOT OBS	502	5408	5554	529	13	0	12006		11.5	826	1335	2082	1482	874	1797	2107	1503
TOT PCT	4.2	45.0	46.3	4.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.2	.0	.0	.0		.4	6.3	.3	.5	.3	.4
NE	1.2	1.7	.2	.0	.0		3.1	8.6	2.8	3.5	3.4	2.6
E	4.7	16.6	3.5	*	.0		24.9	10.9	25.6	24.8	25.5	24.1
SE	8.0	37.8	12.2	.5	*		58.5	12.1	59.0	58.4	58.0	58.7
S	2.2	6.7	2.2	.1	*		11.1	11.4	10.9	10.4	10.8	12.2
SW	.5	.6	.1	*	.0		1.1	8.2	.6	1.2	1.4	1.3
W	.1	.1	.0	.0	.0		.2	6.8	.0	.3	.2	.1
NW	.1	*	.0	.0	.0		.1	4.8	*	.2	*	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.7	.7	.5	.5
TOT OBS	2104	7630	2187	81	4	12006		11.5	2161	3564	2671	3610
TOT PCT	17.5	63.6	18.2	.7	*		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1912-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	3.1	48.2	43.6	4.1	.2	.0	11.2	100.0	2161
06&09	.7	3.5	45.0	45.5	5.3	.1	.0	11.6	100.0	3564
12&15	.5	3.7	42.0	49.3	4.4	.1	.0	11.7	100.0	2671
18&21	.5	3.9	45.4	46.3	3.7	.1	.0	11.3	100.0	3610
TOT	69	433	5408	5554	529	13	0	11.5		12006
PCT	.6	3.6	45.0	46.3	4.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.1	*		4.2
NE	1.3	1.3	1.3	.3		3.9
E	10.0	8.7	9.1	3.1		4.0
SE	15.2	14.9	16.5	6.3		4.1
S	2.3	2.3	3.7	1.9		4.8
SW	*	.2	.4	.2		5.5
W	.0	.0	*	.0		6.0
NW	.0	.0	.0	.1		8.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	*		4.0
TOT OBS	779	740	836	321	2676	4.2
TOT PCT	29.1	27.7	31.2	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.3	
NE	.0	.0	*	.3	.3	.3	.0	.0	*	.0	3.2	
E	.1	.1	.4	1.6	3.1	1.4	.6	.2	.1	.1	23.2	
SE	.2	.2	1.0	3.6	4.4	2.9	1.2	.6	.2	.3	38.4	
S	*	.1	.2	.9	1.5	.7	.4	.1	.0	.0	6.3	
SW	.0	*	.0	.1	.1	.0	.1	.0	.0	*	.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
NW	.0	.0	.1	*	.0	.0	.0	.0	.0	*	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.4	
TOT OBS	8	8	48	177	253	147	61	23	8	12	1931	2676
TOT PCT	.3	.3	1.8	6.6	9.5	5.5	2.3	.9	.3	.4	72.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.6	.7	.7	.7	.7	.7	.7
* OR >5000	1.1	1.4	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.1	3.7	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	7.1	8.8	9.2	9.3	9.3	9.3	9.3	9.3
* OR >1000	14.5	17.9	18.5	18.7	18.7	18.8	18.8	18.8
* OR >600	19.2	24.3	25.2	25.3	25.3	25.4	25.5	25.5
* OR >300	20.0	25.7	26.7	27.0	27.1	27.2	27.4	27.4
* OR >150	20.1	26.0	27.0	27.3	27.4	27.5	27.6	27.6
* OR > 0	20.3	26.2	27.3	27.6	27.8	27.9	28.0	28.0
TOTAL	545	706	735	743	747	750	753	753

TOTAL NUMBER OF OBS: 2691 PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	14.3	24.0	17.3	11.7	7.3	7.1	6.1	7.5 .3	2837

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	.0	.1	*	*	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	*	*	.1	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	*	.1	.1	*	.0	.0	.0	.0	.3	
	PCP	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.2	
	PCP	*	.0	.1	.1	*	*	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	*	.2	.2	*	*	.0	.0	.0	.0	.5	
	PCP	.0	.1	.2	.5	.1	*	.0	.0	.0	.0	.9	
2<5	NO PCP	.0	.2	.4	1.0	.5	.1	*	.0	.0	.0	2.3	
	TOT %	.0	.2	.5	1.6	.6	.1	*	.0	.0	.0	3.2	
	PCP	*	.2	1.0	2.0	.4	.1	*	.1	.0	.0	3.9	
5<10	NO PCP	.1	.5	4.3	6.1	1.7	.4	.0	*	.0	.1	13.2	
	TOT %	.1	.7	5.4	8.1	2.1	.5	*	.1	.0	.1	17.1	
	PCP	.0	.1	.8	1.5	.5	*	.0	.0	.0	.0	2.9	
10+	NO PCP	.3	2.8	23.3	39.6	8.1	1.1	.1	.1	.0	.4	75.8	
	TOT %	.3	2.9	24.0	41.1	8.6	1.2	.1	.1	.0	.4	78.7	
	TOT OBS												3670
	TOT PCT	.4	4.0	30.2	51.3	11.4	1.8	.1	.2	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	.0	.0	*	.0	.0	.0	.0	.0	*	
<1/2	4-10	.0	.0	.0	*	*	*	.0	.0	.0		*	
	11-21	.0	.0	*	.1	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.1	.1	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.1	
1<2	4-10	*	*	*	.1	*	*	.0	.0	.0		.2	
	11-21	.0	*	.1	.2	*	.0	.0	.0	.0		.3	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.4	.1	*	.0	.0	.0	.0	.7	
	0-3	.0	*	*	.2	.2	.1	.0	.0	.0	.0	.5	
2<5	4-10	*	.1	.3	.6	.2	*	.0	.0	.0		1.3	
	11-21	.0	*	.2	.7	.1	*	*	.0	.0		1.0	
	22+	.0	*	*	.2	*	.0	.0	.0	.0		.3	
	TOT %	*	.2	.5	1.6	.6	.1	*	.0	.0	.0	3.1	
	0-3	.0	*	.3	.2	.2	.1	.0	*	.0	.1	1.0	
5<10	4-10	.1	.3	1.9	3.2	.8	.2	*	*	.0		6.6	
	11-21	*	.2	1.7	3.9	.7	.1	.0	.0	.0		6.6	
	22+	.0	.0	.1	.5	*	.0	.0	.0	.0		.6	
	TOT %	.1	.5	4.1	7.8	1.8	.3	*	.1	.0	.1	14.8	
	0-3	.1	.3	.9	1.1	.5	.1	*	*	.0	.4	3.5	
10+	4-10	.3	2.1	12.0	21.1	4.1	.7	.1	*	.0		40.4	
	11-21	*	.6	9.6	21.2	3.8	.2	*	.0	.0		35.4	
	22+	.0	.0	.3	1.3	.2	.0	.0	.0	.0		1.8	
	TOT %	.4	2.9	22.7	44.8	8.7	1.0	.2	.1	.0	.4	81.1	
	TOT OBS												6564
	TOT PCT	.6	3.7	27.4	54.8	11.2	1.5	.2	.1	.0	.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.3	2.6	6.6	7.8	5.1	2.1	.6	.2	.2	25.8	74.2	663
06&09	.5	.0	1.1	6.5	9.9	4.5	2.2	.6	.5	.8	26.4	73.6	648
12&15	.1	.5	1.3	6.9	9.9	6.6	1.7	1.3	.4	.3	29.2	70.8	744
18&21	.4	.3	2.0	6.0	9.3	4.7	3.0	.7	.1	.5	27.1	72.9	739
TOT	9	8	49	181	259	147	63	23	8	12	759	2035	2794
PCT	.3	.3	1.8	6.5	9.3	5.3	2.3	.8	.3	.4	27.2	72.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.3	.4	2.6	15.9	80.7	1294
06&09	.3	.1	.7	3.8	15.7	79.4	1868
12&15	.2	.2	.5	2.4	13.1	83.7	1517
18&21	.2	.3	1.1	3.1	14.7	80.6	1941
TOT	13	13	46	201	985	5362	6620
PCT	.2	.2	.7	3.0	14.9	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	3.5	11.4	16.0	72.6	632
06&09	.5	1.9	10.7	17.1	72.2	619
12&15	.1	2.5	10.2	19.9	69.8	723
18&21	.4	3.1	10.0	18.1	71.8	717
TOT	9	74	284	481	1926	2691
PCT	.3	2.7	10.6	17.9	71.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	*	.0	10	.3
85/89	.0	.0	.0	.1	.9	1.5	.9	.2	114	3.7
80/84	.0	.0	*	.5	7.4	34.6	17.8	6.9	2090	67.2
75/79	.0	.0	.0	.1	.9	7.7	11.1	8.5	877	28.2
70/74	.0	.0	.0	.0	.0	.0	*	.5	18	.6
TOTAL	0	0	1	24	291	1363	927	503	3109	100.0
PCT	.0	.0	*	.8	9.4	43.8	29.8	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.2	.1	.0	.0	.0	.0	.0
*	.2	1.1	1.5	.5	.3	.0	.0	.0	.0
.3	2.6	20.5	36.0	6.6	.9	.1	.1	.0	.2
.1	.9	7.7	14.5	3.9	.7	.1	.1	.0	.2
*	*	*	.3	.2	*	.0	*	.0	.0
.4	3.8	29.5	52.4	11.2	1.9	.2	.2	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	83	82	80	76	74	70	79.5	2144
06&09	90	84	82	80	76	74	71	79.4	3522
12&15	95	88	86	81	78	76	73	81.5	2605
18&21	94	88	84	81	77	75	72	80.7	3535
TOT	95	87	84	80	77	75	70	80.3	11806

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	6.0	44.7	36.1	12.9	80	649
06&09	.0	.2	3.3	39.9	35.1	21.5	82	818
12&15	.0	1.2	14.2	43.0	28.6	13.0	79	825
18&21	.0	1.5	12.8	47.4	21.6	16.7	79	861
TOT	0	27	293	1379	943	511	80	3153

PERIOD: (PRIMARY) 1912-1974
(OVER-ALL) 1855-1974

AREA 0006 RECIFE
9.1S 34.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.1	.0	.0	.1	6	.0	.2
9/10	.0	.0	.0	*	*	.1	*	5	.0	.2
7/8	.0	.0	.0	.0	.4	.3	.0	19	.0	.6
6	.0	.0	*	.1	.2	*	.0	10	.0	.3
5	.0	.0	.1	.2	.4	.2	.0	27	.0	.9
4	.0	.0	.2	.6	.5	.0	.0	39	*	1.2
3	.0	.0	.2	1.0	.6	.0	.0	57	*	1.8
2	.0	*	.6	4.0	.7	.0	.0	164	.1	5.2
1	.0	.0	1.1	6.5	.3	.0	.0	243	.1	7.8
0	.0	.1	4.3	11.5	.3	.0	.0	499	.3	15.9
-1	.0	*	9.7	11.2	.1	.0	.0	649	.5	20.5
-2	.0	.1	11.0	6.4	.0	.0	.0	540	.3	17.2
-3	.0	.2	8.8	2.0	*	.0	.0	339	.1	10.9
-4	.0	.6	5.7	.8	.0	.0	.0	220	.0	7.1
-5	.0	.7	3.6	.3	.0	.0	.0	143	.0	4.6
-6	.0	.7	1.4	.1	.0	.0	.0	69	.0	2.2
-7/-8	.0	.8	.4	.0	.0	.0	.0	39	.0	1.3
-9/-10	.0	.3	.1	.0	.0	.0	.0	11	.0	.4
-11/-13	.1	.1	.1	.0	.0	.0	.0	7	.0	.2
TOTAL	2	114	1462	1379	108	16	6	3087	41	3046
PCT	.1	3.7	47.4	44.7	3.5	.5	.2	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.2	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.0	.0	.0	.0	.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.6
1-2	.2	1.8	.1	.0	.0	.0	2.1
3-4	.1	.7	.3	.0	.0	.0	1.1
5-6	.1	*	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	.6	.0	.0	.0	4.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.2
1-2	.5	8.2	1.5	.0	.0	.0	10.2
3-4	.0	6.0	5.7	.2	.0	.0	11.9
5-6	.0	1.0	5.2	.1	.0	.0	6.3
7	.0	.4	1.0	.2	.0	.0	1.5
8-9	.0	.2	.4	.1	.0	.0	.8
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	16.7	14.0	.5	.0	.0	32.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.7	.0	.0	.0	.0	2.3
1-2	.2	13.0	2.8	.0	.0	.0	16.1
3-4	.0	10.4	10.2	.1	.0	.0	20.8
5-6	.2	1.4	6.1	.5	.0	.0	8.2
7	.0	.1	1.6	.9	.0	.0	2.6
8-9	.0	.1	.3	.8	.0	.0	1.1
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	26.8	21.1	2.6	.0	.0	51.4

PERIOD: (OVER-ALL) 1963-1974 AREA 0006 RECIFE 9.1S 34.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.1
1-2	.4	2.2	.8	.0	.0	.0	3.4	.0	.2	.1	.0	.0	.0	.3
3-4	.1	1.5	1.7	.0	.0	.0	3.4	.0	.2	*	.0	.0	.0	.2
5-6	.1	.5	1.5	.2	.0	.0	2.2	.0	*	.2	.0	.0	.0	.2
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.7	4.7	.3	.0	.0	10.4	.0	.5	.3	.0	.0	.0	.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.1	3.9	.1	.0	.0	.0	6.1	
1-2	1.9	25.4	5.3	.0	.0	.0	32.6	
3-4	.2	18.8	17.8	.3	.0	.0	37.0	
5-6	.4	3.0	13.1	.7	.0	.0	17.1	
7	.0	.4	3.2	1.1	.0	.0	4.6	
8-9	.0	.3	.8	.9	.0	.0	1.9	
10-11	.0	.0	.1	.4	.0	.0	.4	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	51.8	40.3	3.4	.0	.0	100.0	1140

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.6	16.2	5.2	1.8	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	780	3
6-7	*	1.6	11.3	13.1	7.1	2.5	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	825	5
8-9	*	.4	1.6	4.7	3.4	1.5	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	275	6
10-11	.0	.2	.2	.8	.7	.5	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	7
12-13	.0	.0	.5	.4	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
>13	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	1.1	1.8	4.4	1.8	1.5	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	4
TOTAL	55	305	761	585	328	128	45	13	8	1	0	0	0	0	0	0	0	0	0	2229	4
PCT	2.5	13.7	34.1	26.2	14.7	5.7	2.0	.6	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

AREA 0006 RECIFE
9.15 34.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.6	.0	.0	.0	.0	.0	.0	10.6	6.1	.0	.0	.0	.0	.0	83.3
NE	2.7	5.6	2.7	.0	.0	.0	.0	11.1	4.3	.0	.5	.0	.0	.5	83.7
E	2.2	6.0	.9	.0	.0	.0	.0	9.1	5.7	.2	.7	.0	.2	*	84.1
SE	2.2	5.2	.8	.0	.0	.0	.0	8.0	5.0	.2	.6	.0	.2	.0	85.9
S	3.2	6.4	2.2	.0	.0	.0	.0	11.8	6.3	.0	.6	.0	.0	.0	81.3
SW	6.8	2.3	6.8	.0	.0	.0	.0	15.9	1.1	.0	.0	.0	.0	.0	83.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.4	5.5	1.1	.0	.0	.0	.0	8.9	5.3	.1	.6	.0	.2	*	84.8
TOT OBS:	3516														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.7	7.1	.7	.0	.0	.0	.0	9.5	6.0	.1	.4	.0	.0	.0	84.0
06&09	3.2	7.1	1.6	.0	.0	.0	.0	11.9	6.1	.3	.9	.0	.1	.0	80.7
12&15	2.1	3.6	1.5	.0	.0	.0	.0	6.9	4.1	.1	.4	.0	.2	.0	88.2
18&21	2.7	5.0	.8	.0	.0	.0	.0	8.5	4.8	.0	.7	.0	.3	.1	85.5
TOT PCT	2.5	5.7	1.2	.0	.0	.0	.0	9.2	5.2	.1	.6	.0	.2	*	84.6
TOT OBS:	3556														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.1	.1	*	.0	.0		.3	8.8	.3	.2	.2	.3	.3	.3	.3	.3
NE	.2	1.3	.5	.1	.0	.0		2.1	8.8	3.5	1.9	2.5	1.7	2.6	1.7	2.1	1.1
E	.6	9.9	10.5	1.3	.1	.0		22.4	12.0	28.1	20.7	22.9	19.9	26.8	20.6	24.0	19.8
SE	1.0	21.2	35.1	5.3	.1	.0		62.7	13.3	56.0	66.1	62.8	65.0	57.1	64.2	61.3	64.3
S	.4	4.3	5.6	.9	*	.0		11.1	12.7	11.1	10.2	10.6	11.2	11.3	11.7	11.0	12.2
SW	.2	.4	.2	*	.0	.0		.8	9.2	.4	.4	.4	1.3	1.0	1.0	.6	1.3
W	*	*	*	.0	.0	.0		.1	8.3	.1	.1	.1	.1	.2	.1	.1	.1
NW	*	.1	*	*	.0	.0		.2	8.7	.1	.0	*	.4	.2	.2	.1	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.4	.4	.4	.1	.5	.2	.5	.7
TOT OBS	331	4393	6091	902	19	0	11736		12.7	786	1406	2082	1379	812	1688	2059	1524
TOT PCT	2.8	37.4	51.9	7.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	.1	*	.0	.0		.3	8.8	.3	.2	.3	.3
NE	.8	1.1	.2	.0	.0		2.1	8.8	2.5	2.2	2.0	1.7
E	3.4	14.4	4.3	.3	*		22.4	12.0	23.4	21.7	22.6	22.2
SE	6.1	37.4	18.6	.6	*		62.7	13.3	62.5	63.7	61.9	62.6
S	1.7	6.3	3.0	.2	.0		11.1	12.7	10.5	10.8	11.6	11.5
SW	.3	.3	.1	*	.0		.8	9.2	.4	.8	1.0	.9
W	*	*	*	.0	.0		.1	8.3	.1	.1	.2	.1
NW	.1	.1	*	.0	.0		.2	8.7	*	.2	.2	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.4	.3	.3	.6
TOT OBS	1519	7016	3074	123	4	11736		12.7	2192	3461	2500	3583
TOT PCT	12.9	59.8	26.2	1.0	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	1.6	41.9	49.1	6.8	.2	.0	12.4	100.0	2192
06&09	.3	2.7	37.9	51.3	7.8	.2	.0	12.7	100.0	3461
12&15	.3	2.7	32.4	55.7	8.7	.2	.0	13.3	100.0	2500
18&21	.6	2.8	37.8	51.6	7.4	.1	.0	12.6	100.0	3583
TOT	46	285	4393	6091	902	19	0	12.7		11736
PCT	.4	2.4	37.4	51.9	7.7	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	*	.1		3.3
NE	1.2	.8	.8	.4		3.9
E	8.3	9.3	8.3	3.6		4.1
SE	15.5	16.0	17.1	6.5		4.1
S	2.6	2.2	3.9	1.9		4.7
SW	.1	.1	.2	.2		5.5
W	*	*	.1	.0		4.1
NW	*	.0	.1	.0		4.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	*	.0		2.5
TOT OBS	744	750	802	335	2631	4.2
TOT PCT	28.3	28.5	30.5	12.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	*	*	*	.0	.0	.0	.0	.3	
NE	.0	*	*	.2	.2	.2	.2	*	.0	.0	2.3	
E	*	.1	.4	2.0	2.3	1.7	.9	.4	.2	.1	21.4	
SE	.2	.1	.5	3.5	6.2	3.4	1.7	.5	.2	.1	38.7	
S	.1	*	.1	1.3	1.8	.8	.3	.1	.0	.0	6.1	
SW	.0	.0	*	.1	.2	*	.0	.0	.1	.0	.3	
W	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.1	
NW	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.3	
TOT OBS	10	5	28	189	283	164	78	25	12	7	1830	2631
TOT PCT	.4	.2	1.1	7.2	10.8	6.2	3.0	1.0	.5	.3	69.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.7	.8	.8	.8	.8	.8	.8
* OR >5000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	3.5	4.4	4.6	4.6	4.6	4.6	4.6	4.6
* OR >2000	8.1	10.3	10.7	10.8	10.8	10.8	10.8	10.8
* OR >1000	15.7	20.5	21.5	21.6	21.6	21.6	21.6	21.6
* OR >600	20.6	27.1	28.6	28.8	28.9	28.9	28.9	28.9
* OR >300	21.1	27.9	29.6	29.9	29.9	29.9	29.9	29.9
* OR >150	21.2	28.0	29.8	30.0	30.1	30.1	30.1	30.1
* OR > 0	21.3	28.2	29.9	30.2	30.4	30.5	30.5	30.5
TOTAL	564	746	793	801	806	807	808	808

TOTAL NUMBER OF OBS: 2649

PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	14.3	18.6	19.2	12.4	7.7	7.6	6.1	9.3	.3	2769

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	*	*	*	.1	*	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	.2	*	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	*	.2	.0	*	.0	.0	.0	.0	.3	
	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	.2	.0	*	.0	.0	.0	.0	.3	
2<5	PCP	.0	*	.2	.6	.3	.1	.0	.0	.0	.0	1.1	
	NO PCP	*	*	.5	.8	.3	*	.0	*	.0	.0	1.7	
	TOT %	*	.1	.7	1.3	.6	.1	.0	*	.0	.0	2.8	
5<10	PCP	.0	.1	1.3	1.9	.5	*	.0	.0	.0	.0	3.9	
	NO PCP	.1	.5	4.5	8.7	1.5	.3	.0	*	.0	.0	15.5	
	TOT %	.1	.6	5.8	10.6	2.1	.3	.0	*	.0	.0	19.4	
10+	PCP	*	.2	1.1	1.5	.5	.1	.0	.0	.0	.0	3.3	
	NO PCP	.3	2.3	20.9	40.1	8.6	.7	.1	.3	.0	.3	73.7	
	TOT %	.3	2.5	22.0	41.6	9.1	.8	.1	.3	.0	.3	77.0	
	TOT OBS												3515
	TOT PCT	.5	3.2	28.5	53.9	11.9	1.3	.1	.3	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	*	*	.1	*	.0	.0	.0		.1	
	11-21	*	*	*	.1	*	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.2	.1	*	.0	*	.0	.0	.4	
1<2	0-3	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	.3	*	.0	.0	*	.0		.4	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.4	.1	*	.0	*	.0	.0	.6	
2<5	0-3	*	.0	.1	*	.1	.0	.0	.0	.0	*	.3	
	4-10	.0	*	.3	.6	.2	.1	*	*	.0		1.3	
	11-21	*	*	.3	.9	.3	.1	.0	*	.0		1.6	
	22+	.0	*	.1	.2	*	.0	.0	.0	.0		.3	
	TOT %	*	.1	.7	1.8	.6	.1	*	*	.0	*	3.4	
5<10	0-3	.0	*	.1	.2	.1	*	*	.0	.0	*	.5	
	4-10	*	.3	2.0	2.9	.7	.1	.0	*	.0		6.0	
	11-21	.0	.1	2.0	5.2	.9	.1	*	*	.0		8.3	
	22+	*	*	.3	.6	.1	.0	.0	*	.0		1.0	
	TOT %	*	.5	4.3	8.9	1.7	.2	*	*	.0	*	15.8	
10+	0-3	.1	.2	.5	.9	.2	.2	*	*	.0	.3	2.5	
	4-10	.2	1.2	9.5	17.9	4.1	.3	*	.1	.0		33.4	
	11-21	.1	.4	9.3	25.8	4.1	.2	*	*	.0		39.9	
	22+	*	*	.9	2.4	.5	*	.0	.0	.0		3.8	
	TOT %	.3	1.9	20.2	47.0	8.9	.7	.1	.2	.0	.3	79.6	
	TOT OBS												6476
	TOT PCT	.4	2.4	25.4	58.4	11.5	1.1	.1	.3	.0	.4	100.0	

PERIOD: (PRIMARY) 1910-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.3	.9	7.5	9.9	4.7	2.7	1.4	.5	.8	29.1	70.9	657
06&09	.5	.0	1.1	6.2	13.0	6.1	3.3	1.1	.3	.3	31.8	68.2	644
12&15	.1	.1	1.3	7.5	9.4	6.5	2.5	.8	.4	.1	28.9	71.1	720
18&21	.4	.3	.9	7.1	10.1	6.8	3.0	.4	.6	.0	29.7	70.3	701
TOT	10	5	28	193	288	165	78	25	12	8	812	1910	2722
PCT	.4	.2	1.0	7.1	10.6	6.1	2.9	.9	.4	.3	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.0	.7	3.9	14.4	80.5	1326
06&09	.1	.5	.5	3.2	18.1	77.6	1848
12&15	.0	.3	.6	2.7	14.7	81.6	1441
18&21	.1	.6	.6	3.9	15.7	79.1	1900
TOT	10	25	40	225	1035	5180	6515
PCT	.2	.4	.6	3.5	15.9	79.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	1.7	11.1	19.1	69.8	632
06&09	.5	1.6	9.1	23.9	67.0	624
12&15	.1	1.7	10.6	19.1	70.3	706
18&21	.4	1.7	10.5	20.1	69.4	687
TOT	10	45	274	543	1832	2649
PCT	.4	1.7	10.3	20.5	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	.1	.1	.0	8	.3
85/89	.0	.0	.0	.1	.9	.9	.3	.1	67	2.3
80/84	.0	.0	*	.3	7.1	21.8	8.4	2.6	1170	40.2
75/79	.0	.0	.0	.1	3.4	22.5	19.8	9.1	1596	54.9
70/74	.0	.0	.0	.0	.0	.1	.2	1.9	67	2.3
TOTAL	0	0	1	15	335	1319	837	401	2908	100.0
PCT	.0	.0	*	.5	11.5	45.4	28.8	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.1	.1	*	.0	.0	.0	.0
.0	.1	.6	.9	.5	.1	.0	.0	.0	.0
.2	1.3	12.6	21.3	4.0	.4	.1	.2	.0	.1
.2	1.3	14.4	30.9	6.9	.8	*	.2	.0	.1
.0	.1	.7	.9	.4	.1	.0	*	.0	.0
.4	2.9	28.4	54.2	11.8	1.4	.1	.4	.0	.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	82	81	78	75	73	68	78.3	2175
06&09	92	82	81	78	75	73	69	78.2	3416
12&15	93	87	84	80	76	74	68	80.2	2445
18&21	90	85	83	79	76	73	68	79.3	3505
TOT	93	85	82	79	76	73	68	79.0	11541

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	6.7	46.9	33.7	12.6	80	629
06&09	.0	.3	6.1	42.6	33.2	17.9	81	775
12&15	.0	1.1	17.2	44.1	26.8	10.8	78	760
18&21	.0	.6	14.9	46.9	23.0	14.6	79	779
TOT	0	16	336	1325	852	414	79	2943

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	*	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	*	3	.0	.1
7/8	.0	.0	.0	.1	*	.2	.1	10	.0	.3
6	.0	.0	.0	*	.2	.2	.0	12	.0	.4
5	.0	.0	.0	.1	.1	.3	*	19	.0	.6
4	.0	.0	.0	.3	1.3	.2	.0	53	.0	1.8
3	.0	.0	*	.3	1.3	.2	*	54	.0	1.8
2	.0	.0	.0	1.3	2.8	.2	.0	126	*	4.2
1	.0	.0	.0	3.8	4.5	.1	.0	247	*	8.3
0	.0	.0	.1	10.7	4.8	.0	.0	462	.2	15.4
-1	.0	.0	.3	17.3	3.3	*	.0	620	.2	20.8
-2	.0	*	.7	15.8	1.6	.0	.0	537	.1	18.1
-3	.0	.0	1.3	9.0	.7	.0	.0	328	*	11.1
-4	.0	.0	1.8	4.7	.5	.0	.0	207	.1	6.9
-5	.0	*	1.6	2.9	.2	.0	.0	137	.0	4.6
-6	.0	.0	1.6	.9	.0	.0	.0	74	.0	2.5
-7/-8	.0	*	1.3	.5	.0	.0	.0	53	.0	1.8
-9/-10	.0	.1	.2	.1	.0	.0	.0	12	.0	.4
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	262	2009	629	46	5	2957	19	2938
PCT	*	.2	8.9	67.9	21.3	1.6	.2	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	.3	.0	.0	.0	.0	.5
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	.0	.3	.0	.0	.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.3	1.2	.3	.0	.0	.0	1.8
3-4	.0	.5	.3	.0	.0	.0	.8
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	1.0	.0	.0	.0	3.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.5	.0	.0	.0	.0	1.2
1-2	.1	5.2	1.9	.0	.0	.0	7.2
3-4	.3	4.4	5.4	.3	.0	.0	10.4
5-6	.1	1.0	5.9	.6	.0	.0	7.6
7	.0	.1	2.4	.6	.0	.0	3.0
8-9	.0	.1	.1	.4	.0	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	11.2	15.9	2.0	.0	.0	30.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	*	.0	.0	.0	.9
1-2	.3	7.0	3.6	.0	.0	.0	11.0
3-4	.1	4.3	12.5	.9	.0	.0	17.8
5-6	*	1.9	10.0	1.3	.1	.0	13.3
7	.0	.6	4.6	1.8	.1	.0	7.1
8-9	.0	.2	1.7	1.0	.0	.0	2.9
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	*	.0	.0	*
13-16	.0	*	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.9	32.7	5.2	.2	.0	53.6

PERIOD: (OVER-ALL) 1963-1974 JUNE AREA 0006 RECIFE

TABLE 18 (CONT) 9.1S 34.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	1.1	.0	.0	.0	3.3	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.9	2.1	.0	.0	.0	3.0	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.4	1.5	.1	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.9	.4	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.1	.0	.0	*	.0	.0	.0	*
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	6.3	1.1	.0	.0	10.9	.0	.3	.4	*	.0	.0	.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1-2	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.0	*	.0	*	.0	.0	*	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	1.5	.2	.0	.0	.0	3.2	
1-2	1.2	16.2	7.1	.0	.0	.0	24.4	
3-4	.4	10.2	20.4	1.2	.0	.0	32.1	
5-6	.1	3.3	17.9	2.3	.1	.0	23.6	
7	.0	.7	7.8	2.7	.1	.0	11.3	
8-9	.0	.3	2.0	1.8	.0	.0	4.1	
10-11	.0	.0	.5	.5	.0	.0	1.0	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	32.3	55.9	8.5	.2	.0	100.0	1105

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	6.0	13.5	7.6	2.5	1.1	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	710	4
6-7	.1	1.7	8.3	12.4	7.4	3.5	1.0	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	773	5
8-9	.0	.3	1.4	4.3	4.6	3.7	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	355	7
10-11	.0	.1	.7	1.0	2.0	.4	.5	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	7
12-13	.0	.0	.3	*	.4	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
>13	.0	.0	.0	.1	.1	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
INDET	.4	1.3	3.3	2.0	1.5	.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	5
TOTAL	28	208	606	609	407	212	82	37	11	1	0	0	0	0	0	0	0	0	0	2201	5
PCT	1.3	9.5	27.5	27.7	18.5	9.6	3.7	1.7	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0006 RECIFE
9.15 34.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	11.8	.0	.0	.0	.0	11.8	11.8	.0	.0	.0	.0		.0	76.5
NE	2.5	4.7	.6	.0	.0	.0	.0	7.9	1.9	.0	.0	.0	2.5		.0	87.7
E	2.3	5.7	.8	.0	.0	.0	.0	8.8	5.9	.1	.8	.0	.0		.0	84.5
SE	2.2	4.7	.6	.0	.0	.0	.0	7.6	5.1	*	.6	.0	*		*	86.6
S	3.1	4.4	1.1	.0	.0	.0	.0	8.6	4.4	.0	.0	.0	.2		.0	86.8
SW	6.8	4.5	7.6	.0	.0	.0	.0	18.9	6.8	.0	.0	.0	.0		.0	74.2
W	.0	11.8	23.5	.0	.0	.0	.0	35.3	17.6	.0	.0	.0	.0		.0	47.1
NW	36.4	.0	36.4	.0	.0	.0	.0	36.4	9.1	.0	.0	.0	.0		.0	54.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0		.0	88.9
TOT PCT	2.4	4.9	.9	.0	.0	.0	.0	8.1	5.2	*	.5	.0	.1		*	86.0
TOT OBS:	3678															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	3.0	4.4	.9	.0	.0	.0	.0	8.1	4.8	.0	.4	.0	.1		.0	86.6
06609	3.4	5.7	1.0	.0	.0	.0	.0	9.9	7.2	.1	.7	.0	.0		.0	82.0
12615	2.0	4.5	.6	.0	.0	.0	.0	7.0	3.8	.0	.6	.0	.1		.1	88.4
18621	1.6	5.1	1.1	.0	.0	.0	.0	7.8	4.9	.0	.3	.0	.2		.0	86.8
TOT PCT	2.4	4.9	.9	.0	.0	.0	.0	8.2	5.2	*	.5	.0	.1		*	85.9
TOT OBS:	3700															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	*	*	.0	.0		.1	8.3	.1	.1	.2	.1	.1	.1	.2	.1
NE	.1	1.1	.5	*	.0	.0		1.7	8.7	2.3	1.7	1.7	1.1	2.1	1.6	1.9	1.4
E	.4	8.2	10.3	1.7	*	.0		20.6	12.7	25.3	19.0	21.7	19.3	25.2	18.8	20.7	18.3
SE	.6	18.6	35.8	7.4	.1	.0		62.6	14.2	58.9	64.7	62.8	63.8	60.5	63.7	61.8	62.5
S	.5	4.2	7.4	1.5	.1	.0		13.6	13.6	12.7	13.6	12.5	13.8	10.6	13.9	14.1	16.5
SW	.1	.4	.3	*	*	.0		.8	9.8	.4	.5	.6	1.3	.9	1.1	.6	.8
W	*	*	*	*	*	.0		.1	15.7	.0	.0	.0	.1	.1	.1	.1	.1
NW	*	.1	*	.0	.0	.0		.1	6.2	.0	*	*	.2	.2	.1	*	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.2	.4	.5	.2	.3	.5	.6	.2
TOT OBS	235	3771	6263	1239	27	0	11535		13.6	807	1265	2050	1336	884	1670	2093	1430
TOT PCT	2.0	32.7	54.3	10.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.1	*	*	.0	.0		.1	8.3	.1	.1	.1	.1
NE	.7	.9	.1	*	.0		1.7	8.7	1.9	1.5	1.8	1.7
E	2.9	12.4	5.0	.3	.0		20.6	12.7	21.4	20.8	21.0	19.8
SE	4.9	34.6	21.7	1.3	*		62.6	14.2	62.5	63.2	62.6	62.1
S	1.7	7.2	4.4	.3	.0		13.6	13.6	13.2	13.0	12.8	15.1
SW	.3	.4	.1	*	.0		.8	9.8	.4	.8	1.0	.7
W	*	.0	*	*	.0		.1	15.7	.0	*	.1	.1
NW	.1	*	.0	.0	.0		.1	6.2	*	.1	.2	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.3	.4	.5	.5
TOT OBS	1287	6415	3607	224	2	11535		13.6	2072	3386	2554	3523
TOT PCT	11.2	55.6	31.3	1.9	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	1.5	36.4	51.9	9.5	.4	.0	13.2	100.0	2072
06&09	.4	1.4	34.9	51.7	11.4	.2	.0	13.6	100.0	3386
12&15	.5	1.6	28.7	56.9	12.0	.2	.0	14.1	100.0	2554
18&21	.5	1.9	31.3	56.3	9.9	.2	.0	13.5	100.0	3523
TOT	48	187	3771	6263	1239	27	0	13.6		11535
PCT	.4	1.6	32.7	54.3	10.7	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	*	*		3.9
NE	1.0	.6	.5	.1		3.1
E	7.8	7.5	7.9	2.4		4.0
SE	16.5	18.3	17.2	6.5		4.1
S	3.2	3.6	4.0	1.3		4.2
SW	.1	.1	.2	.1		5.3
W	*	.0	*	.0		4.8
NW	*	.0	*	*		4.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	*	*		2.0
TOT OBS	816	851	841	298	2806	4.1
TOT PCT	29.1	30.3	30.0	10.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
NE	.0	.1	*	.2	.1	.1	*	.0	.0	.0	1.7	
E	.1	.1	.2	1.8	2.9	1.1	.7	.1	*	.0	18.4	
SE	.1	.1	.9	3.4	6.3	2.5	2.0	.5	.1	.1	42.6	
S	.1	*	.2	.8	1.3	.7	.3	.0	.1	*	8.6	
SW	*	.0	.0	.1	.1	*	*	.0	.0	.0	.4	
W	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	.0	*	.0	.0	*	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.5	
TOT OBS	9	10	39	174	303	126	89	18	6	3	2029	2806
TOT PCT	.3	.4	1.4	6.2	10.8	4.5	3.2	.6	.2	.1	72.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	3.4	4.0	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	6.8	8.0	8.5	8.5	8.5	8.5	8.5	8.5
* OR >1000	15.0	18.3	19.3	19.3	19.3	19.3	19.3	19.3
* OR >600	18.6	24.0	25.5	25.5	25.5	25.5	25.5	25.5
* OR >300	19.2	25.2	26.8	26.9	26.9	26.9	26.9	26.9
* OR >150	19.3	25.4	27.1	27.2	27.2	27.2	27.2	27.2
* OR > 0	19.4	25.6	27.4	27.4	27.5	27.5	27.6	27.6
TOTAL	545	721	770	772	774	774	776	776

TOTAL NUMBER OF OBS: 2815

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	12.8	21.8	19.2	13.5	7.6	6.9	5.5	7.6 .2	2957

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	*	*	*	.0	.0	.0	.0	*	.1	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	*	.3	
	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.3	
	PCP	*	.1	.4	.6	.3	.1	*	.0	.0	.0	1.5	
2<5	NO PCP	*	.0	.3	.8	.7	.1	.0	.0	.0	.0	2.0	
	TOT %	.1	.1	.7	1.4	1.0	.2	*	.0	.0	.0	3.5	
	PCP	.0	.1	.9	2.2	.4	*	.0	*	.0	.0	3.6	
5<10	NO PCP	.1	.2	3.2	7.6	2.6	.1	*	.0	.0	.1	13.8	
	TOT %	.1	.3	4.1	9.7	2.9	.1	*	*	.0	.1	17.4	
	PCP	.0	*	.7	1.3	.3	*	*	.0	.0	.0	2.5	
10+	NO PCP	.1	1.7	18.6	45.2	9.3	.5	.1	*	.0	.4	75.9	
	TOT %	.1	1.8	19.3	46.5	9.6	.5	.1	*	.0	.4	78.4	
	TOT OBS												3677
	TOT PCT	.2	2.1	24.3	57.9	13.9	.9	.1	.1	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
1/2<1	4-10	.0	.0	.1	.1	*	*	.0	.0	.0		.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	.1	.1	.1	*	.0	.0	.0	*	.3	
	0-3	.0	.0	*	*	.1	*	.0	.0	.0	*	.1	
1<2	4-10	.0	.0	.0	.1	.2	*	.0	.0	.0		.2	
	11-21	.0	*	*	.2	*	*	.0	.0	.0		.2	
	22+	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	*	.1	.3	.3	*	.0	.0	.0	*	.7	
	0-3	.0	.0	*	*	.1	*	.0	.0	.0	.0	.2	
2<5	4-10	*	*	.2	.4	.2	.1	.0	.0	.0		.9	
	11-21	.0	*	.3	1.0	.3	*	.0	.0	.0		1.7	
	22+	*	.0	.1	.2	*	.0	*	.0	.0		.3	
	TOT %	*	*	.6	1.5	.7	.1	*	.0	.0	.0	3.0	
	0-3	.0	*	.1	.1	.2	.0	.0	.0	.0	.1	.5	
5<10	4-10	*	.1	1.2	2.1	.7	.1	*	.0	.0		4.3	
	11-21	.0	.1	1.9	6.0	1.3	*	.0	*	.0		9.2	
	22+	.0	.0	.3	1.0	.3	.0	*	.0	.0		1.6	
	TOT %	*	.2	3.5	9.2	2.5	.1	*	*	.0	.1	15.6	
	0-3	*	.1	.3	.5	.2	.1	.0	.0	.0	.2	1.4	
10+	4-10	.1	1.1	7.9	16.6	3.3	.2	*	*	.0		29.1	
	11-21	*	.5	9.2	28.3	5.8	.2	*	.0	.0		44.0	
	22+	.0	*	.9	4.0	.8	*	*	.0	.0		5.7	
	TOT %	.1	1.6	18.2	49.4	10.1	.4	*	*	.0	.2	80.2	
	TOT OBS												6652
	TOT PCT	.2	1.9	22.5	60.6	13.6	.7	.1	*	.0	.3	100.0	

JULY

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.6	1.8	4.9	10.4	3.6	2.7	.6	.0	.1	25.2	74.8	671
06&09	.3	.2	.8	6.3	11.9	5.1	2.4	1.1	.2	.0	28.2	71.8	663
12&15	.3	.1	1.5	7.2	9.6	3.3	3.2	.5	.4	.0	26.2	73.8	779
18&21	.2	.5	1.2	5.5	10.0	5.2	3.7	.4	.2	.2	27.3	72.7	801
TOT	9	10	39	175	304	126	89	18	6	3	779	2135	2914
PCT	.3	.3	1.3	6.0	10.4	4.3	3.1	.6	.2	.1	26.7	73.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.0	.4	3.0	17.1	79.3	1313
06&09	.3	.2	.5	3.3	18.2	77.6	1871
12&15	.0	.3	.5	2.6	11.7	84.9	1512
18&21	.1	.7	1.2	3.1	15.3	79.7	1977
TOT	9	20	46	202	1044	5352	6673
PCT	.1	.3	.7	3.0	15.6	80.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	3.0	9.9	16.9	73.1	644
06&09	.3	1.3	9.4	20.6	70.0	636
12&15	.3	2.0	11.0	16.7	72.3	755
18&21	.3	2.1	9.9	19.0	71.2	780
TOT	9	58	284	514	2017	2815
PCT	.3	2.1	10.1	18.3	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	*	.0	.0	.0	2	.1
85/89	.0	.0	.0	.1	.4	.2	.1	.0	25	.8
80/84	.0	.0	.0	.5	4.2	8.8	2.7	1.2	526	17.3
75/79	.0	.0	.0	.3	9.0	37.3	19.7	9.8	2311	76.1
70/74	.0	.0	.0	.0	*	.6	1.5	3.6	173	5.7
TOTAL	0	0	0	27	414	1426	729	441	3037	100.0
PCT	.0	.0	.0	.9	13.6	47.0	24.0	14.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	*	.0	.0	.0	.0
.0	*	.2	.5	*	*	.0	.0	.0	.0
.1	.3	4.7	9.9	2.0	.2	.1	*	.0	.1
*	1.4	18.4	45.0	10.6	.5	*	.0	.0	.2
.1	*	1.4	2.7	1.3	.2	*	*	.0	*
.2	1.8	24.7	58.0	13.9	.9	.1	.1	.0	.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	81	79	77	74	73	69	77.0	2038
06&09	89	81	80	77	74	72	68	76.9	3311
12&15	92	85	83	79	75	73	70	79.0	2485
18&21	90	85	82	78	75	73	70	78.2	3424
TOT	92	84	82	78	74	73	68	77.8	11258

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	9.0	49.9	26.4	14.6	79	643
06&09	.0	.4	7.2	44.1	29.3	19.1	81	769
12&15	.0	1.3	19.1	46.2	22.1	11.3	77	796
18&21	.0	1.7	17.8	47.9	19.2	13.4	77	848
TOT	0	27	416	1434	734	445	78	3056

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	*	*	*	4	.0	.1
9/10	.0	.0	.0	.1	.0	.1	.0	5	.0	.2
7/8	.0	.0	.0	.1	.2	.4	.0	19	.0	.6
6	.0	.0	.0	.1	.2	.3	.0	17	.0	.6
5	.0	.0	.0	.2	.6	.2	.0	29	.0	.9
4	.0	.0	.1	.7	1.0	.1	.0	55	.0	1.8
3	.0	.0	.1	1.0	1.3	.0	.0	75	.0	2.5
2	.0	.0	.2	2.6	2.1	.0	.0	147	.0	4.8
1	.0	.0	.4	6.7	1.3	.0	.0	258	.0	8.4
0	.0	.0	1.0	14.3	1.1	.0	.0	502	.1	16.3
-1	.0	.0	2.2	17.6	.5	.0	.0	622	.1	20.2
-2	.0	*	3.7	11.9	.5	.0	.0	494	.1	16.0
-3	.0	.0	4.7	5.9	.1	.0	.0	328	.0	10.7
-4	.0	*	4.6	3.1	.0	.0	.0	236	.0	7.7
-5	.0	.2	2.5	1.2	.1	.0	.0	123	.0	4.0
-6	.0	.1	1.8	.4	.0	.0	.0	73	.0	2.4
-7/-8	.0	.4	1.4	.2	.0	.0	.0	59	.0	1.9
-9/-10	*	.3	.1	*	.0	.0	.0	14	.0	.5
-11/-13	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		700		275		1		10	3051
		32		2022		30		3061		
PCT	*	1.0	22.9	66.1	9.0	1.0	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.1	.0	.0	.0	.6
3-4	.0	.4	.4	.0	.0	.0	.7
5-6	.0	.0	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.5	*	.0	.0	1.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.8
1-2	.2	4.2	1.7	.0	.0	.0	6.0
3-4	.0	3.2	6.7	.3	.0	.0	10.2
5-6	.0	.7	5.9	.6	.0	.0	7.2
7	.0	.3	2.0	.5	.0	.0	2.7
8-9	.0	.0	.3	.2	.0	.0	.5
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.9	16.8	1.6	.0	.0	27.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.3	.0	.0	.0	.6
1-2	.1	6.4	3.1	.0	.0	.0	9.6
3-4	.0	6.0	13.9	.4	.0	.0	20.3
5-6	.0	1.2	14.0	1.5	.0	.0	16.8
7	.0	.3	5.4	1.5	.0	.0	7.1
8-9	.0	.0	1.8	.8	.0	.0	2.6
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.1	.3	.0	.0	.4
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	14.1	38.8	4.9	.1	.0	58.1

PERIOD: (OVER-ALL) 1963-1974 JULY AREA 0006 RECIFE 9.1S 34.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.1	.5	.0	.0	.0	1.7
3-4	.0	.9	3.0	.1	.0	.0	4.0
5-6	.0	.5	2.4	.4	.0	.0	3.3
7	.0	.2	1.1	.4	.0	.0	1.7
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	7.1	1.4	.0	.0	11.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.3
3-4	.0	.1	.2	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.3	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	1.3	.3	.0	.0	.0	2.5	
1-2	.4	12.3	5.4	.0	.0	.0	18.1	
3-4	.0	10.5	24.2	.9	.0	.0	35.5	
5-6	.0	2.4	22.5	2.6	.0	.0	27.4	
7	.0	.7	8.5	2.4	.0	.0	11.6	
8-9	.0	.0	2.2	1.2	.0	.0	3.4	
10-11	.0	.0	.4	.4	.0	.0	.9	
12	.0	.0	.1	.3	.0	.0	.4	
13-16	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1175
TOT PCT	1.4	27.1	63.5	7.9	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.2	12.6	7.4	2.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	677	4
6-7	.0	.6	7.4	14.3	9.4	4.3	1.3	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	880	6
8-9	*	.5	1.6	4.0	5.4	3.3	1.3	.5	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	7
10-11	.0	.3	.3	.5	1.2	.8	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	8
12-13	.0	.0	.2	.2	.3	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
INDET	.4	1.5	2.5	2.2	1.8	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	4
TOTAL	27	186	565	661	481	219	92	34	28	3	0	0	0	0	0	0	0	0	0	2296	5
PCT	1.2	8.1	24.6	28.8	20.9	9.5	4.0	1.5	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	19.5	.0	.0	.0	.0	.0	19.5	.0	.0	.0	.0	.0		.0	80.5
NE	2.7	3.9	1.2	.0	.0	.0	.0	7.7	5.6	.0	.0	.0	.0		.0	86.6
E	1.1	3.9	.8	.0	.0	.0	.0	5.8	4.8	.0	.0	.0	.2		.0	89.2
SE	1.4	3.2	.4	.0	.0	.0	.0	5.0	4.7	*	.1	.0	.6		.0	89.5
S	1.2	3.5	.8	.0	.0	.0	.0	5.5	4.2	.1	.0	.0	.2		.0	90.0
SW	9.1	1.3	3.2	.0	.0	.0	.0	13.6	2.6	.0	.0	.0	2.6		.0	81.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0		.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
TOT PCT	1.5	3.4	.6	.0	.0	.0	.0	5.5	4.7	*	.1	.0	.5		.0	89.3
TOT OBS:	3540															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	3.8	.9	.0	.0	.0	.0	6.1	4.4	.0	.3	.0	.0		.0	89.2
06&09	2.0	4.3	.6	.0	.0	.0	.0	6.9	6.0	.0	.1	.0	1.0		.0	86.0
12&15	1.2	2.4	.4	.0	.0	.0	.0	4.0	4.5	.0	.0	.0	.6		.0	90.9
18&21	1.3	3.7	.7	.0	.0	.0	.0	5.8	3.7	.1	.0	.0	.6		.0	89.8
TOT PCT	1.5	3.5	.6	.0	.0	.0	.0	5.7	4.7	*	.1	.0	.6		.0	89.0
TOT OBS:	3567															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.1	*	.0	*	.0		.2	10.0	.2	.0	.1	.2	.1	.3	.2	*
NE	.1	1.1	.8	*	*	.0		2.0	10.3	2.4	1.8	2.0	2.0	2.1	1.7	2.1	1.8
E	.2	10.9	11.6	.9	*	.0		23.7	11.8	26.0	21.6	23.8	22.0	29.6	21.8	25.4	21.1
SE	.5	21.4	35.8	5.0	.2	.0		62.8	13.4	59.9	65.1	63.4	63.7	59.0	63.9	61.7	64.0
S	.2	3.8	5.4	1.1	.1	.0		10.5	13.5	11.3	11.0	9.9	9.8	8.6	11.0	10.1	12.1
SW	.1	.3	.2	*	*	.0		.6	9.7	.2	.3	.3	1.8	.6	.8	.4	.6
W	.0	*	*	.0	.0	.0		.1	8.8	.0	.0	.1	.2	.1	.1	.0	.0
NW	.0	.1	.0	.0	.0	.0		.1	7.2	.0	.0	.0	.1	.0	.2	.0	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.0	.3	.2	.0	.2	.1	.3	
TOT OBS	129	3988	5708	751	30	0	10606		12.9	807	1148	1910	1220	854	1485	1916	1266
TOT PCT	1.2	37.6	53.8	7.1	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	.1	*	*	.0		.2	10.0	.1	.2	.2	.2
NE	.4	1.4	.2	*	.0		2.0	10.3	2.0	2.0	1.8	2.0
E	3.1	16.3	4.1	.1	*		23.7	11.8	23.4	23.1	24.6	23.6
SE	5.2	39.4	17.3	.8	*		62.8	13.4	62.9	63.5	62.1	62.6
S	1.2	6.1	2.9	.3	*		10.5	13.5	11.1	9.9	10.1	10.9
SW	.2	.2	.1	*	.0		.6	9.7	.3	.9	.7	.5
W	*	*	.0	.0	.0		.1	8.8	.0	.1	.1	.0
NW	*	*	.0	.0	.0		.1	7.2	.0	*	.1	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.2	.3	.1	.2
TOT OBS	1104	6752	2613	133	4	10606		12.9	1955	3130	2339	3182
TOT PCT	10.4	63.7	24.6	1.3	*		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.2	1.1	40.9	50.6	6.9	.3	.0	12.6	100.0	1955
06&09	.3	1.0	39.0	52.3	7.2	.2	.0	12.8	100.0	3130
12&15	.1	1.0	32.8	58.5	7.3	.3	.0	13.4	100.0	2339
18&21	.2	1.1	37.7	53.8	6.9	.3	.0	12.8	100.0	3182
TOT	20	109	3988	5708	751	30	0	12.9		10606
PCT	.2	1.0	37.6	53.8	7.1	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.1	*		5.3
NE	.8	.5	.6	.4		4.2
E	10.4	7.8	7.1	2.0		3.6
SE	19.5	19.2	15.6	4.8		3.8
S	3.2	3.0	3.2	1.2		4.0
SW	.1	.2	.1	.1		4.2
W	.0	.0	.0	*		8.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	*	.0	.0	.0		2.0
TOT OBS	940	843	736	235	2754	3.8
TOT PCT	34.1	30.6	26.7	8.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.0	.0	*	.0	.0	*	.1	
NE	.0	.0	.1	.2	.2	*	.0	.1	*	*	1.6	
E	.1	*	.3	1.2	2.6	.9	.5	.1	.1	.1	21.4	
SE	.1	.1	.4	3.1	5.2	3.4	1.0	.4	*	*	45.3	
S	.0	.0	*	.7	1.0	.6	.4	.1	*	*	7.6	
SW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
W	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT OBS	6	3	25	145	250	142	51	20	5	5	2102	2754
TOT PCT	.2	.1	.9	5.3	9.1	5.2	1.9	.7	.2	.2	76.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.4	.4	.4	.4	.4	.4
* OR >5000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.3	2.8	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	6.2	7.6	8.0	8.0	8.0	8.0	8.0	8.0
* OR >1000	13.5	16.4	17.0	17.1	17.1	17.1	17.1	17.1
* OR >600	17.3	21.6	22.4	22.5	22.5	22.5	22.5	22.5
* OR >300	17.8	22.4	23.2	23.4	23.4	23.4	23.4	23.4
* OR >150	17.8	22.5	23.3	23.5	23.5	23.5	23.5	23.5
* OR > 0	17.9	22.7	23.5	23.7	23.7	23.7	23.7	23.7
TOTAL	495	625	648	653	654	654	655	655

TOTAL NUMBER OF OBS: 2759 PCT FREQ NH <5/8: 76.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.2	16.4	22.0	19.6	13.0	6.1	6.7	5.1	5.9	.1	2890

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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9.1S 34.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	*	.1	.0	.1	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	.2	*	.1	.0	.0	.0	.0	.3	
	PCP	.0	.1	.1	.2	.2	*	.0	.0	.0	.0	.6	
2<5	NO PCP	*	.1	.3	.6	.4	*	.0	*	.0	.0	1.4	
	TOT %	*	.2	.4	.8	.6	*	.0	*	.0	.0	2.0	
	PCP	.0	.1	.7	1.3	.3	*	.0	.0	.0	.0	2.3	
5<10	NO PCP	*	.4	3.0	6.9	1.5	.3	.0	.1	.0	*	12.3	
	TOT %	*	.5	3.7	8.2	1.8	.3	.0	.1	.0	*	14.6	
	PCP	.1	*	.7	1.1	.2	.1	.0	*	.0	*	2.2	
10+	NO PCP	.2	1.6	21.0	47.3	9.7	.6	.1	*	.0	.1	80.6	
	TOT %	.2	1.6	21.7	48.4	9.9	.7	.1	.1	.0	.1	82.8	
	TOT OBS												3536
	TOT PCT	.3	2.4	25.8	57.8	12.3	1.1	.1	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1<2	4-10	.0	.0	*	.1	*	*	.0	.0	.0		.1	
	11-21	.0	*	*	.1	*	*	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	0-3	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	*	*	.1	.4	.2	*	.0	*	.0		.7	
	11-21	.0	.1	.2	.3	.2	.0	.0	.0	.0		.7	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	.3	.8	.4	*	.0	*	.0	.0	1.6	
	0-3	.0	*	*	*	.1	.1	.0	.0	.0	*	.3	
5<10	4-10	.0	.2	1.1	2.4	.4	*	.0	*	.0		4.2	
	11-21	.0	.1	1.6	4.3	.7	*	.0	.0	.0		6.8	
	22+	*	*	.1	.7	.1	.0	.0	.0	.0		1.0	
	TOT %	*	.3	2.8	7.5	1.3	.2	.0	*	.0	*	12.2	
	0-3	*	*	.2	.4	.1	*	.0	.0	.0	.1	.9	
10+	4-10	.1	.9	9.7	18.0	3.1	.3	.1	*	.0		32.1	
	11-21	.1	.7	11.3	31.6	4.8	.2	.0	.0	.0		48.7	
	22+	.0	.0	.4	2.9	.6	.0	.0	.0	.0		4.0	
	TOT %	.2	1.6	21.6	53.0	8.6	.5	.1	*	.0	.1	85.7	
	TOT OBS												6310
	TOT PCT	.2	2.0	24.8	61.5	10.4	.7	.1	.1	.0	.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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9.15 34.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.0	.9	6.0	7.8	4.7	1.5	.7	.1	.1	22.0	78.0	683
06&09	.1	.1	.9	5.5	10.4	4.2	2.7	.0	.1	.3	24.4	75.6	672
12&15	.3	.0	1.1	4.1	9.1	5.6	2.0	1.3	.1	.1	23.7	76.3	750
18&21	.3	.3	.7	5.3	8.0	5.4	1.1	.7	.3	.1	22.0	78.0	753
TOT	6	3	25	149	251	143	51	20	5	5	658	2200	2858
PCT	.2	.1	.9	5.2	8.8	5.0	1.8	.7	.2	.2	23.0	77.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.1	.4	1.4	13.2	84.6	1286
06&09	.2	.1	.3	1.6	13.8	84.0	1778
12&15	.1	.1	.3	1.7	10.5	87.3	1430
18&21	.0	.1	.3	1.7	11.6	86.3	1843
TOT	8	5	21	102	780	5421	6337
PCT	.1	.1	.3	1.6	12.3	85.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.2	8.5	14.5	77.0	661
06&09	.2	1.3	7.8	18.2	74.0	639
12&15	.3	1.4	7.0	17.6	75.4	733
18&21	.3	1.2	7.9	15.3	76.9	726
TOT	6	35	214	452	2093	2759
PCT	.2	1.3	7.8	16.4	75.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.1	.0	.0	3	.1
85/89	.0	.0	.0	.3	.5	.1	.2	.0	29	1.0
80/84	.0	.0	.0	.4	3.8	5.9	1.7	.6	373	12.3
75/79	.0	.0	.0	.7	10.7	42.1	18.1	7.3	2383	78.9
70/74	.0	.0	.0	*	.1	1.2	2.8	3.6	233	7.7
TOTAL	0	0	0	42	455	1488	688	348	3021	100.0
PCT	.0	.0	.0	1.4	15.1	49.3	22.8	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.1	.0	.0	.0	.0	.0	.0
*	.0	.1	.6	.2	.0	.0	*	.0	.0
*	.4	2.8	7.0	1.8	.2	.0	*	.0	.0
.2	1.5	21.3	45.6	9.3	.7	*	.1	.0	.2
*	.2	2.0	4.0	1.2	.3	*	*	.0	.0
.3	2.1	26.2	57.3	12.6	1.1	.1	.1	.0	.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	80	79	77	74	72	67	76.4	1941
06&09	86	81	79	76	73	72	66	76.3	3098
12&15	89	85	82	78	75	73	68	78.6	2286
18&21	91	85	82	78	74	73	68	77.8	3117
TOT	91	84	81	77	74	72	66	77.3	10442

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	11.5	50.4	27.1	10.6	78	643
06&09	.0	1.2	7.3	48.1	26.1	17.3	79	779
12&15	.0	1.9	20.1	50.1	20.4	7.5	76	796
18&21	.0	1.8	20.1	48.1	19.1	10.9	76	827
TOT	0	42	457	1496	697	353	77	3045

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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9.15 34.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	h FOG	MO FOG
11/13	.0	.0	.0	.1	*	.1	5	.0	.2
9/10	.0	.0	.0	.1	.1	*	7	.0	.2
7/8	.0	.0	*	.2	.2	.0	13	.0	.4
6	.0	.0	*	.3	.1	.0	11	.0	.4
5	.0	.1	.2	.6	.2	*	33	.0	1.1
4	.0	.1	.6	1.1	.1	.0	54	.0	1.8
3	.0	.1	1.3	1.0	.0	.0	71	.0	2.4
2	.0	.1	3.3	1.0	.0	.0	130	.0	4.4
1	.0	.8	7.9	.8	.0	.0	282	.0	9.5
0	.0	2.2	15.6	.6	.0	.0	544	.0	18.4
-1	*	5.5	15.2	.1	.0	.0	616	*	20.8
-2	.1	6.9	9.6	.0	.0	.0	489	.0	16.5
-3	.1	6.6	3.7	*	.0	.0	308	.0	10.4
-4	*	5.1	1.1	*	.0	.0	187	.0	6.3
-5	.1	2.7	.5	*	.0	.0	100	.0	3.4
-6	.3	1.6	.2	.0	.0	.0	59	.0	2.0
-7/-8	.6	.6	.1	.0	.0	.0	39	.0	1.3
-9/-10	.1	*	.1	.0	.0	.0	7	.0	.2
-11/-13	.1	.1	.0	.0	.0	.0	4	.0	.1
TOTAL	42	959	1758	178	18	4	2959	1	2958
PCT	1.4	32.4	59.4	6.0	.6	.1	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.1	.0	.0	.0	.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	.4	.4	.0	.0	.0	.9
3-4	.0	.7	.5	.0	.0	.0	1.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	1.3	.0	.0	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.5
1-2	.0	5.4	1.8	.0	.0	.0	7.2
3-4	.1	5.8	6.2	.0	.0	.0	12.0
5-6	.0	1.2	5.7	.1	.0	.0	7.0
7	.0	.4	2.3	.3	.0	.0	2.9
8-9	.0	.0	.4	.2	.1	.0	.7
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.1	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	13.3	16.6	.6	.1	.0	30.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.1	.0	.0	.0	.3
1-2	.1	7.7	4.2	.0	.0	.0	11.9
3-4	*	6.0	14.1	.2	.0	.0	20.3
5-6	.0	2.0	13.7	.9	.0	.0	16.6
7	.0	.4	4.5	1.2	.0	.0	6.0
8-9	.0	.0	1.8	.6	.0	.0	2.4
10-11	.0	.0	.1	.4	.0	.0	.4
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	16.1	38.4	3.4	.0	.0	58.0

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0006 RECIFE 9.1S 34.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	.7	.2	.0	.0	.0	1.1
3-4	.0	.7	2.4	.1	.0	.0	3.2
5-6	.0	.1	1.9	.1	.0	.0	2.1
7	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	5.5	.8	.0	.0	8.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	*	*	.0	.0	.0	*
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.3	.7	.2	.0	.0	.0	1.1	
1-2	.8	14.3	6.5	.0	.0	.0	21.6	
3-4	.2	13.3	23.0	.3	.0	.0	36.8	
5-6	.0	3.3	21.5	1.2	.0	.0	26.0	
7	.0	.8	7.5	1.6	.0	.0	9.8	
8-9	.0	.1	2.3	1.0	.1	.0	3.5	
10-11	.0	.0	.3	.4	.0	.0	.8	
12	.0	.1	.2	.1	.0	.0	.3	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1181
TOT PCT	1.2	32.5	61.5	4.7	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	4.2	12.1	7.7	2.6	1.4	.5	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	657	4
6-7	.0	.5	7.7	14.9	8.1	3.2	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	830	6
8-9	.0	.1	1.1	5.7	7.4	3.2	1.3	.7	.4	*	*	*	.0	.0	.0	.0	.0	.0	.0	453	7
10-11	.0	.3	.1	.7	1.5	.8	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	7
12-13	.0	.0	.4	.3	.2	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
>13	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	.1	1.2	2.7	1.9	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175	4
TOTAL	11	144	565	704	482	209	109	36	16	1	1	1	0	0	0	0	0	0	0	2259	5
PCT	.5	6.4	24.1	31.2	21.3	9.3	4.8	1.6	.7	*	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.25 34.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	12.0	.0	.0	.0	.0	.0	12.0	.0	.0	.0	.0	.0		.0	88.0
NE	.0	1.6	.1	.0	.0	.0	.0	1.7	2.6	.4	.0	.0	.2		.4	94.5
E	.9	1.7	.5	.0	.0	.0	.0	2.8	3.4	.1	.3	.0	.2		.0	93.2
SE	1.5	2.0	.5	.0	.0	.0	.0	3.9	3.8	.1	.2	.0	.3		.0	91.7
S	1.1	2.2	1.0	.0	.0	.0	.0	4.2	2.7	.5	.0	.0	1.0		.0	91.6
SW	21.4	.0	21.4	.0	.0	.0	.0	35.7	1.8	.0	.0	.0	.0		.0	62.5
W	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	16.7	.0	.0		.0	61.1
NW	25.5	.0	.0	.0	.0	.0	.0	25.5	8.5	.0	2.1	.0	.0		.0	63.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0		.0	85.7
TOT PCT	1.3	1.9	.6	.0	.0	.0	.0	3.6	3.6	.1	.2	.0	.3		*	92.2
TOT OBS:	3507															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.4	1.5	.4	.0	.0	.0	.0	3.2	4.5	.0	.0	.0	.0		.0	92.4
06&09	1.1	1.8	.6	.0	.0	.0	.0	3.5	4.4	.3	.5	.0	.2		.1	91.0
12&15	1.2	2.4	.7	.0	.0	.0	.0	4.0	2.8	.0	.2	.0	.6		.0	92.5
18&21	1.4	1.7	.8	.0	.0	.0	.0	3.7	2.8	.1	.2	.0	.3		.0	92.9
TOT PCT	1.3	1.9	.6	.0	.0	.0	.0	3.6	3.5	.1	.2	.0	.3		*	92.2
TOT OBS:	3526															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	*	*	.0	.0	.0		.1	8.4	.0	.0	.1	.2	.2	.1	.1	.0
NE	.1	2.5	2.2	.1	.0	.0		4.9	11.0	6.6	2.7	5.1	3.9	7.0	4.9	5.3	3.8
E	.5	18.6	16.3	.5	*	.0		35.9	11.1	37.2	33.6	35.7	34.5	40.7	36.7	36.7	32.7
SE	.8	23.3	26.9	1.6	*	.0		52.7	11.8	48.9	56.3	53.4	55.5	47.1	52.2	51.7	54.9
S	.2	2.4	2.8	.3	*	.0		5.7	11.9	6.5	6.8	5.2	5.0	4.5	5.1	5.1	8.1
SW	*	.2	.1	.0	*	.0		.4	9.7	.1	.4	.3	.3	.3	.8	.3	.5
W	*	*	*	.0	.0	.0		.1	6.9	.2	*	.0	.2	.1	.0	.0	*
NW	*	.1	.1	.0	.0	.0		.1	9.6	.1	.1	.1	.2	.1	.1	.2	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.4	.0	.2	.2	.0	.1	.3	.1
TOT OBS	174	4664	4789	247	5	0	9879		11.5	852	1005	1796	1114	861	1277	1869	1105
TOT PCT	1.8	47.2	48.5	2.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	*	.1	.0	.0	.0		.1	8.4	.0	.1	.2	.1
NE	.6	3.8	.5	*	.0		4.9	11.0	4.5	4.7	5.7	4.9
E	4.7	26.7	4.3	.1	.0		35.9	11.1	35.2	35.2	38.3	35.2
SE	6.0	37.6	8.8	.2	.0		52.7	11.8	52.9	54.2	50.2	52.8
S	1.0	3.4	1.2	.1	.0		5.7	11.9	6.7	5.2	4.9	6.2
SW	.1	.2	.1	*	.0		.4	9.7	.3	.3	.6	.4
W	*	*	.0	.0	.0		.1	6.9	.1	.1	*	*
NW	.1	.1	*	.0	.0		.1	9.6	.1	.1	.1	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.2	.2	*	.2
TOT OBS	1261	7105	1474	39	0	9879		11.5	1857	2910	2138	2974
TOT PCT	12.8	71.9	14.9	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.2S 34.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.2	1.6	48.6	47.5	2.0	.1	.0	11.4	100.0	1857
06&09	.2	1.7	48.4	47.2	2.5	.1	.0	11.3	100.0	2910
12&15	*	1.6	41.7	53.1	3.5	.0	.0	12.0	100.0	2138
18&21	.2	1.5	49.1	47.0	2.1	*	.0	11.3	100.0	2974
TOT	16	158	4664	4789	247	5	0	11.5		9879
PCT	.2	1.6	47.2	48.5	2.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	*	*		3.8
NE	3.8	1.9	.9	.3		2.7
E	15.7	10.9	9.3	2.2		3.4
SE	18.7	14.8	12.8	2.8		3.5
S	2.1	1.6	1.3	.3		3.4
SW	.1	.1	.1	.0		4.1
W	*	.0	*	*		4.8
NW	.0	.0	.1	*		5.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	*	.0		2.5
TOT OBS	1125	811	678	158	2772	3.4
TOT PCT	40.6	29.3	24.5	5.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	
NE	.0	.0	*	.2	.3	.2	.1	*	.1	.0	5.9	
E	.1	.0	.3	1.5	3.0	1.7	.7	.2	.3	.1	30.3	
SE	*	*	.4	2.5	4.2	1.8	1.1	.4	.1	.1	38.3	
S	.0	.0	.0	.2	.5	.3	.2	*	.0	.0	4.0	
SW	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.2	
W	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
NW	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.2	
TOT OBS	4	1	19	123	224	110	57	17	13	7	2197	2772
TOT PCT	.1	*	.7	4.4	8.1	4.0	2.1	.6	.5	.3	79.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.9	3.2	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	6.2	7.0	7.1	7.1	7.2	7.2	7.2	7.2
* OR >1000	13.0	14.8	15.2	15.2	15.3	15.3	15.3	15.3
* OR >600	16.6	19.0	19.5	19.5	19.7	19.7	19.8	19.8
* OR >300	17.0	19.5	20.2	20.3	20.4	20.4	20.5	20.5
* OR >150	17.1	19.5	20.2	20.3	20.4	20.5	20.5	20.5
* OR > 0	17.1	19.6	20.3	20.4	20.5	20.6	20.7	20.7
TOTAL	476	545	565	567	570	572	574	574

TOTAL NUMBER OF OBS: 2778

PCT FREQ NH <5/8: 79.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	19.0	24.0	19.4	9.6	6.4	6.3	4.3	3.6	.1	2887

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	.0	.0	.0	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	.0	.0	.1	*	*	*	*	.0	.0	.1	
1<2	PCP	.0	.0	*	.1	*	.1	.0	*	.0	.0	.2	
	NO PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	*	.1	.0	*	.0	.0	.4	
2<5	PCP	.0	.0	.1	.2	*	*	.0	.0	.0	.0	.3	
	NO PCP	*	.1	.4	.8	.1	*	.0	*	.0	.0	1.5	
	TOT %	*	.1	.5	1.0	.1	.1	.0	*	.0	.0	1.8	
5<10	PCP	*	.1	.5	.8	.1	.0	.0	*	.0	.0	1.5	
	NO PCP	.0	.4	3.0	5.3	.6	.1	.0	.1	.0	.1	9.6	
	TOT %	*	.5	3.5	6.0	.7	.1	.0	.1	.0	.1	11.0	
10+	PCP	.0	*	.3	.8	.1	*	.0	.0	.0	.0	1.3	
	NO PCP	.1	5.9	32.4	41.3	4.9	.1	.1	.1	.0	.1	85.1	
	TOT %	.1	5.9	32.7	42.1	5.0	.2	.1	.1	.0	.1	86.5	
	TOT OBS												3506
	TOT PCT	.2	6.5	36.9	49.4	5.9	.4	.1	.3	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	*	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	*	.0	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.1	*	.0	*	*	.0		.1	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.1	*	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.1	*	*	.0	*	.0		.2	
	11-21	.0	*	*	.1	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.2	*	*	.0	*	.0	.0	.3	
2<5	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.0	.3	.5	*	*	.0	*	.0		.8	
	11-21	.0	*	.2	.4	.1	*	.0	*	.0		.7	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	.5	.8	.1	*	.0	*	.0	.0	1.6	
5<10	0-3	.0	*	.1	.1	*	.0	.0	.0	.0	*	.3	
	4-10	.0	.1	1.5	2.3	.2	*	.0	*	.0		4.2	
	11-21	*	.2	1.3	2.9	.4	.0	.0	*	.0		4.8	
	22+	.0	.0	.1	.2	*	.0	.0	.0	.0		.3	
	TOT %	*	.3	2.9	5.6	.7	*	.0	.1	.0	*	9.6	
10+	0-3	*	.1	.3	.8	.2	*	*	*	.0	.1	1.7	
	4-10	*	2.5	16.7	20.3	2.1	.1	*	*	.0		41.7	
	11-21	*	2.1	15.6	22.9	2.3	.1	*	*	.0		43.1	
	22+	.0	*	.3	1.1	.2	*	.0	.0	.0		1.7	
	TOT %	.1	4.8	32.9	45.2	4.7	.2	.1	.1	.0	.1	88.2	
	TOT OBS												6219
	TOT PCT	.1	5.1	36.5	51.9	5.6	.4	.1	.2	.0	.1	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.1	.7	3.2	8.2	3.6	2.2	.4	.0	.0	18.5	81.5	696
06&09	.3	.0	.4	5.4	8.2	4.5	2.1	.4	.4	.3	22.1	77.9	670
12&15	.1	.0	.8	4.2	8.1	4.3	1.2	1.1	.5	.1	20.6	79.4	737
18&21	.0	.0	.8	4.4	6.9	3.0	2.6	.4	.8	.5	19.5	80.5	766
TOT	4	1	20	123	225	110	58	17	13	7	578	2291	2869
PCT	.1	*	.7	4.3	7.8	3.8	2.0	.6	.5	.2	20.1	79.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.5	1.4	9.9	87.8	1278
06&09	.0	.0	.2	1.7	12.1	86.1	1745
12&15	.1	.1	.4	1.5	7.4	90.5	1415
18&21	.2	.3	.4	1.8	8.8	88.5	1802
TOT	7	10	22	100	601	5500	6240
PCT	.1	.2	.4	1.6	9.6	88.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.3	5.2	14.3	80.5	676
06&09	.3	.8	7.1	15.9	77.0	648
12&15	.1	1.3	6.6	15.1	78.3	715
18&21	.0	1.1	7.0	14.1	78.9	739
TOT	4	31	180	412	2186	2778
PCT	.1	1.1	6.5	14.8	78.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	*	.0	.0	.0	3	.1
85/89	.0	.0	*	.1	.5	.2	.1	.1	34	1.2
80/84	.0	.0	.0	.2	4.5	8.6	2.5	1.6	507	17.4
75/79	.0	.0	.0	.2	5.8	43.0	22.5	5.7	2253	77.2
70/74	.0	.0	.0	.0	.0	.6	1.6	1.9	120	4.1
TOTAL	0	0	1	17	317	1531	780	271	2917	100.0
PCT	.0	.0	*	.6	10.9	52.5	26.7	9.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.1	.0	.0	.0	.0	.0	.0
.0	.1	.3	.6	.1	.0	.0	*	.0	.0
.1	1.3	6.4	8.6	1.0	*	.0	.0	.0	*
.1	4.8	28.5	39.1	4.3	.1	.1	*	.0	.2
.0	.2	1.5	2.0	.3	.1	*	.0	.0	.0
.2	6.5	36.8	50.3	5.7	.3	.1	.1	.0	.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	80	79	77	74	73	68	76.8	1836
06&09	87	82	80	77	74	72	68	76.9	2868
12&15	90	85	83	79	76	73	68	79.2	2056
18&21	90	85	82	78	75	73	69	78.5	2877
TOT	90	84	82	78	75	73	68	77.8	9637

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	5.3	52.6	33.8	8.1	79	665
06&09	.0	.3	4.7	46.7	35.4	12.9	80	743
12&15	.0	.8	15.9	56.2	19.2	7.9	77	738
18&21	.0	1.1	16.6	54.3	19.8	8.2	76	783
TOT	0	18	317	1537	785	272	78	2929

PERIOD: (PRIMARY) 1913-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	*	.0	.2	*	7	.0	.2
9/10	.0	.0	.0	.1	.1	.2	.1	13	.0	.4
7/8	.0	.0	.0	.2	.1	.4	.0	21	.0	.7
6	.0	.0	.0	*	.3	.2	.0	14	.0	.5
5	.0	.0	.0	.4	.6	.1	.0	32	.0	1.1
4	.0	*	*	.9	1.3	*	.0	67	.0	2.3
3	.0	.0	.2	1.3	1.4	.0	.0	85	.0	2.9
2	.0	.0	.2	4.2	1.9	.0	.0	182	*	6.2
1	.0	.0	.7	10.2	1.1	.0	.0	348	.0	12.0
0	.0	.0	1.6	17.7	.5	.0	.0	574	*	19.7
-1	.0	*	3.4	17.8	.1	.0	.0	620	*	21.3
-2	*	.0	5.9	9.1	.1	.0	.0	439	.0	15.1
-3	.0	.0	4.6	3.3	*	.0	.0	230	*	7.9
-4	.0	.1	3.3	1.5	.0	.0	.0	140	.0	4.8
-5	.0	.1	1.7	.4	.0	.0	.0	66	.0	2.3
-6	.0	.3	.7	.1	.0	.0	.0	33	*	1.1
-7/-8	.0	.1	.3	.2	.0	.0	.0	18	.0	.6
-9/-10	.0	.2	.1	.0	.0	.0	.0	8	.0	.3
-11/-13	*	*	*	.0	.0	.0	.0	3	*	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	2	28	658	1956	224	31	3	2902	6	2896
PCT	.1	1.0	22.7	67.4	7.7	1.1	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.8	.2	.0	.0	.0	2.0
3-4	.0	.6	1.6	.0	.0	.0	2.2
5-6	.0	.5	1.1	.0	.0	.0	1.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	3.1	.0	.0	.0	6.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.1	.0	.0	.0	1.1
1-2	.1	7.7	2.8	.0	.0	.0	10.6
3-4	.0	5.8	9.7	.2	.0	.0	15.8
5-6	.0	1.5	7.2	.1	.0	.0	8.8
7	.0	.3	3.1	.1	.0	.0	3.4
8-9	.1	.2	.8	.2	.0	.0	1.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	16.3	23.9	.6	.0	.0	41.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	*	.0	.0	.0	.7
1-2	.4	7.0	2.2	.0	.0	.0	9.6
3-4	.0	6.8	11.2	.1	.0	.0	18.1
5-6	.0	3.9	8.8	.3	.0	.0	13.0
7	.2	.3	3.2	.5	.0	.0	4.3
8-9	*	.0	.2	.4	.0	.0	.6
10-11	.0	.1	.3	.2	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	18.7	26.0	1.4	.0	.0	46.8

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0006 RECIFE

TABLE 18 (CONT) 9.2S 34.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.9	.3	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.5	.9	.0	.0	.0	1.4	.1	.0	*	.0	.0	.0	.1
5-6	.0	.3	.8	.1	.0	.0	1.1	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	2.1	.1	.0	.0	4.0	.1	.3	*	.0	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.1	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.0	.0	.0	.1	.0	.3	.2	.0	.0	.0	.5	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.6	1.8	.2	.0	.0	.0	2.6	
1-2	.5	18.0	5.5	.0	.0	.0	24.0	
3-4	.1	13.9	23.8	.3	.0	.0	38.1	
5-6	.0	6.3	17.9	.4	.0	.0	24.7	
7	.2	.6	6.7	.6	.0	.0	8.1	
8-9	.1	.2	1.0	.6	.0	.0	1.8	
10-11	.0	.1	.4	.2	.0	.0	.7	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	41.0	55.5	2.1	.0	.0	100.0	1215

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.7	16.1	8.7	3.0	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	817	4
6-7	.1	.8	10.8	12.5	7.5	2.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	781	5
8-9	.0	.1	1.6	4.7	4.7	2.9	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	344	6
10-11	.0	.1	.1	1.2	1.4	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	7
12-13	.0	.0	.2	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
>13	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDET	.3	1.6	3.2	1.7	1.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	4
TOTAL	30	209	722	653	408	163	48	17	4	0	0	0	0	0	0	0	0	0	0	2254	5
PCT	1.3	9.3	32.0	29.0	18.1	7.2	2.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	96.6
NE	.3	1.8	.0	.0	.0	.0	.0	2.0	1.1	.3	.6	.0	.3	.0	.0	95.6
E	.4	.9	.2	.0	.0	.0	.0	1.5	1.6	.2	.7	.0	.2	.0	.0	95.8
SE	.8	2.3	.2	.0	.0	.0	.0	3.3	2.5	.1	*	.0	.1	.0	.0	93.9
S	1.7	1.5	.0	.0	.0	.0	.0	3.2	2.4	.0	.0	.0	.0	.0	.0	94.4
SW	4.0	.0	.0	.0	.0	.0	.0	4.0	16.0	.0	.0	.0	.0	.0	.0	80.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
TOT PCT	.6	1.5	.2	.0	.0	.0	.0	2.2	1.8	.2	.5	.0	.2	.0	95.1	
TOT OBS:	3646															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.9	.4	.0	.0	.0	.0	1.4	1.7	.3	.5	.0	.1	.0	96.0	
06&09	.8	2.1	.1	.0	.0	.0	.0	2.9	1.9	.4	.5	.0	.2	.0	94.0	
12&15	.8	1.4	.3	.0	.0	.0	.0	2.5	2.4	.0	.2	.0	.2	.0	94.7	
18&21	.6	1.4	.1	.0	.0	.0	.0	2.1	1.5	.0	.6	.0	.2	.0	95.6	
TOT PCT	.6	1.5	.2	.0	.0	.0	.0	2.3	1.9	.2	.5	.0	.2	.0	95.0	
TOT OBS:	3664															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.4	.2	*	*	.0		.7	9.8	.7	.4	.6	.6	1.1	1.1	.8	.7
NE	.2	8.2	6.9	.2	.0	.0		15.5	10.9	16.9	13.3	14.1	16.4	16.8	16.4	16.7	14.1
E	.5	25.4	19.0	.7	*	.0		45.6	10.8	45.7	44.9	45.5	45.1	50.5	45.8	45.6	43.5
SE	.6	17.8	16.0	1.2	*	.0		35.6	11.4	32.9	39.3	37.6	36.3	29.0	34.5	34.0	38.7
S	.1	1.1	.8	.1	.0	.0		2.1	10.8	3.4	1.9	1.8	1.2	2.5	1.6	2.4	2.6
SW	*	.1	*	*	.0	.0		.1	8.3	.1	.1	.1	.2	.0	.2	.2	.1
W	.0	*	*	*	.0	.0		.1	11.0	.0	.0	.0	.0	.1	.2	*	.2
NW	.0	*	.0	.0	.0	.0		*	5.0	.0	.0	.0	.0	.0	.1	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.2	.0	.3	.2	.0	.0	.2	.1
TOT OBS	181	5708	4639	235	3	0	10766		11.0	818	1146	1933	1228	885	1508	1974	1274
TOT PCT	1.7	53.0	43.1	2.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.5	.1	*	.0		.7	9.8	.6	.6	1.1	.7
NE	2.4	11.3	1.9	.0	.0		15.5	10.9	14.8	15.0	16.6	15.7
E	6.6	34.4	4.5	.1	.0		45.6	10.8	45.2	45.3	47.5	44.8
SE	5.0	25.0	5.6	.1	.0		35.6	11.4	36.6	37.1	32.5	35.9
S	.4	1.3	.3	.0	.0		2.1	10.8	2.5	1.6	2.0	2.5
SW	.1	*	*	*	.0		.1	8.3	.1	.2	.1	.2
W	*	*	.0	*	.0		.1	11.0	.0	.0	.2	.1
NW	*	.0	.0	.0	.0		*	5.0	.0	.0	*	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.1	.2	.0	.2
TOT OBS	1592	7813	1331	30	0	10766		11.0	1964	3161	2393	3248
TOT PCT	14.8	72.6	12.4	.3	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.1	1.1	55.4	41.4	1.8	.1	.0	10.9	100.0	1964
06&09	.2	1.7	51.6	43.8	2.6	.0	.0	11.1	100.0	3161
12&15	.0	1.2	48.9	47.2	2.7	*	.0	11.5	100.0	2393
18&21	.2	1.9	56.0	40.3	1.6	.0	.0	10.6	100.0	3248
TOT	14	167	5708	4639	235	3	0	11.0		10766
PCT	.1	1.6	53.0	43.1	2.2	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.2	.2	.1		4.2
NE	8.1	6.2	2.9	.5		2.9
E	21.9	16.1	8.9	1.3		3.0
SE	12.5	10.0	6.9	1.2		3.3
S	1.0	.8	.8	*		3.4
SW	*	.0	*	*		6.8
W	.1	.0	.0	.0		2.0
NW	.0	.0	.0	*		8.0
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.0	.0		1.3
TOT OBS	1231	939	555	90	2815	3.1
TOT PCT	43.7	33.4	19.7	3.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.0	*	.1	.1	.0	*	.0	.0	.5	
NE	*	.0	.1	.3	.8	.5	.2	*	*	.0	15.6	
E	.0	.1	.2	1.0	3.1	1.2	.7	.1	*	.0	41.7	
SE	.0	*	*	1.2	2.1	1.0	.4	.1	.1	*	25.7	
S	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	2.0	
SW	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT OBS	2	5	8	74	174	84	41	8	4	1	2414	2815
TOT PCT	.1	.2	.3	2.6	6.2	3.0	1.5	.3	.1	*	85.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
= OR >3500	1.6	1.8	1.8	1.9	1.9	1.9	1.9	1.9
= OR >2000	3.9	4.5	4.7	4.9	4.9	4.9	4.9	4.9
= OR >1000	9.3	10.6	11.0	11.1	11.1	11.1	11.1	11.1
= OR >600	11.2	12.9	13.6	13.7	13.7	13.7	13.7	13.7
= OR >300	11.4	13.2	13.9	14.0	14.0	14.0	14.0	14.0
= OR >150	11.5	13.4	14.0	14.2	14.2	14.2	14.2	14.2
= OR > 0	11.6	13.5	14.1	14.2	14.2	14.2	14.2	14.2
TOTAL	326	380	398	402	402	402	402	402

TOTAL NUMBER OF OBS: 2822

PCT FREQ NH <5/8: 85.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	20.8	26.1	21.6	10.0	5.2	4.4	2.6	2.3 .0	2963

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	*	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.1	*	*	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	.4	.3	.4	.1	*	*	.0	.0	.0	1.3	
	TOT %	.0	.4	.4	.5	.1	*	*	.0	.0	.0	1.4	
	PCP	*	.2	.4	.3	.0	.0	.0	.0	.0	.0	.9	
5<10	NO PCP	*	2.1	5.0	3.2	.2	*	.1	.0	.0	.0	10.6	
	TOT %	.1	2.2	5.3	3.5	.2	*	.1	.0	.0	.0	11.5	
	PCP	.0	.2	.2	.6	.1	*	.0	.0	.0	*	1.1	
10+	NO PCP	.7	15.2	41.3	26.0	2.3	.1	.1	*	.0	.1	85.7	
	TOT %	.7	15.3	41.4	26.6	2.4	.1	.1	*	.0	.1	86.8	
	TOT OBS												3646
	TOT PCT	.8	18.0	47.2	30.7	2.8	.2	.2	*	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	*	.0	*	*	*	.0	.0	.0	.0		.1	
	TOT %	*	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
2<5	4-10	.0	.2	.1	.2	*	*	*	.0	.0		.5	
	11-21	.0	.1	.2	.2	*	.0	.0	.0	.0		.5	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.3	.3	.4	.1	*	*	.0	.0	.0	1.1	
	0-3	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
5<10	4-10	*	.8	2.4	1.4	.2	*	*	.0	.0		4.9	
	11-21	.0	.8	1.6	1.4	.1	.0	.0	.0	.0		3.8	
	22+	.0	*	*	*	*	*	*	.0	.0		.1	
	TOT %	*	1.6	4.1	2.9	.3	*	*	.0	.0	.0	9.0	
	0-3	.1	.2	.4	.5	*	*	.0	.0	.0	.1	1.3	
10+	4-10	.4	7.4	24.5	16.7	1.1	.1	*	*	.0		50.3	
	11-21	.2	6.1	17.5	12.7	.9	*	*	.0	.0		37.3	
	22+	.0	.2	.2	.4	*	.0	.0	.0	.0		.8	
	TOT %	.6	13.8	42.6	30.3	2.1	.1	*	*	.0	.1	89.7	
	TOT OBS												6276
	TOT PCT	.7	15.8	47.1	33.7	2.5	.1	.1	*	.0	.1	100.0	

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PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.1	5.6	3.4	1.3	.1	.3	.0	12.9	87.1	674
06&09	.0	.3	.1	2.9	7.3	3.4	1.4	.3	.1	.1	16.0	84.0	701
12&15	.0	.1	.8	2.8	6.4	2.9	1.7	.6	.1	.0	15.5	84.5	781
18&21	.3	.3	.1	2.4	4.7	1.8	1.2	.0	.0	.0	10.7	89.3	782
TOT	2	5	8	75	176	84	41	8	4	1	404	2534	2938
PCT	.1	.2	.3	2.6	6.0	2.9	1.4	.3	.1	*	13.8	86.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.3	1.3	8.0	90.1	1268
06&09	.0	.1	.1	1.0	10.3	88.6	1751
12&15	.0	.0	.1	1.0	7.6	91.3	1455
18&21	.0	.1	.2	1.4	9.6	88.8	1820
TOT	1	4	10	73	567	5639	6294
PCT	*	.1	.2	1.2	9.0	89.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.5	10.9	85.5	649
06&09	.0	.5	4.8	12.7	82.5	661
12&15	.0	.9	5.0	11.8	83.2	756
18&21	.3	.7	4.2	7.3	88.5	756
TOT	2	15	125	299	2398	2822
PCT	.1	.5	4.4	10.6	85.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	*	.0	.1	.1	*	*	.0	8	.3
85/89	.0	.0	.0	.2	1.1	.8	.3	.1	75	2.5
80/84	.0	.0	.0	.2	6.5	16.3	5.5	3.0	950	31.4
75/79	.0	.0	.0	*	2.3	34.9	20.3	6.9	1950	64.5
70/74	.0	.0	.0	.0	.0	.2	.7	.5	42	1.4
TOTAL	0	1	0	14	303	1580	809	318	3025	100.0
PCT	.0	*	.0	.5	10.0	52.2	26.7	10.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	*	.0	.0	.0	.0	.0	.0
*	.3	1.3	.8	*	*	.0	.0	.0	.0
.4	7.4	15.1	7.8	.6	.0	.0	.0	.0	.1
.4	10.3	30.5	21.1	1.8	.1	.0	*	.0	.1
.0	.1	.7	.4	.1	.0	.0	.0	.0	.0
.8	18.1	47.9	30.3	2.6	.1	.0	*	.0	.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	82	80	78	76	74	64	77.8	1946
06&09	87	82	81	78	75	73	63	77.8	3121
12&15	93	86	84	80	77	75	73	80.4	2339
18&21	93	86	84	79	77	75	66	79.5	3151
TOT	93	86	83	79	76	74	63	78.9	10557

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.6	53.4	33.4	10.4	80	652
06&09	.0	.1	1.9	46.7	37.4	13.8	81	775
12&15	.0	.8	16.3	56.1	16.8	10.0	77	791
18&21	.0	1.0	17.4	52.6	21.0	8.0	76	820
TOT	0	16	304	1585	813	320	78	3038

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	.1	.1	7	.0	.2
9/10	.0	.0	.0	*	.1	.2	.1	13	.0	.4
7/8	.0	.0	.0	.1	.2	.7	.0	30	.0	1.0
6	.0	.0	.0	.1	.5	.3	.0	29	.0	1.0
5	.0	.0	.0	.1	1.1	.4	.0	48	.0	1.6
4	.0	.0	*	.4	2.1	.3	.0	87	.0	2.9
3	.0	.0	*	.9	2.8	*	.0	113	.0	3.8
2	.0	.0	.1	3.6	3.6	.0	.0	218	.0	7.3
1	.0	.0	.1	9.1	2.9	.0	.0	361	*	12.0
0	.0	.0	.5	19.3	1.8	*	.0	651	.3	21.4
-1	.0	.0	.8	19.1	.6	.0	.0	617	.1	20.4
-2	.0	.0	1.5	11.3	.4	.0	.0	396	.1	13.1
-3	.0	.0	1.6	4.6	.1	.0	.0	190	.0	6.3
-4	.0	.0	2.2	2.0	.1	.0	.0	127	.0	4.2
-5	.0	*	1.2	.8	*	.0	.0	64	.0	2.1
-6	.0	.1	.4	.2	*	.0	.0	21	.0	.7
-7/-8	.0	.0	.2	.3	.0	.0	.0	14	.0	.5
-9/-10	.0	*	.1	.2	.0	.0	.0	11	*	.3
-11/-13	*	.1	.1	.1	.0	.0	.0	7	.0	.2
TOTAL	1	6	267	2168	495	60	7	3004	16	2988
PCT	*	.2	8.9	72.2	16.5	2.0	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.1	.0	.2
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.3	.0	.1	.0	1.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.6
1-2	.1	4.4	1.2	.0	.0	.0	5.7
3-4	.1	2.5	5.2	.3	.0	.0	8.1
5-6	.0	1.4	2.8	.4	.0	.0	4.6
7	.0	.1	1.2	.1	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	8.9	10.6	.7	.0	.0	20.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.1	.0	.0	.0	1.0
1-2	.2	15.3	2.5	.0	.0	.0	18.1
3-4	.0	11.4	9.4	.0	.0	.0	20.8
5-6	.0	2.0	6.5	.1	.0	.0	8.6
7	.0	.1	1.6	.1	.0	.0	1.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	29.6	20.4	.2	.0	.0	50.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	*	.0	.0	.0	.2
1-2	.2	6.1	1.7	.0	.0	.0	8.0
3-4	.1	3.8	6.8	.1	.0	.0	10.8
5-6	.0	.6	5.0	.0	.0	.0	5.6
7	.0	.1	1.2	.1	.0	.0	1.4
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.7	14.7	.3	.0	.0	26.1

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.0	*	.0	.0	.0	*
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	*	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.2	.0	.0	.0	1.8	.0	.0	*	*	.0	.0	*

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.2	1.5	.2	.0	.0	.0	1.9	
1-2	.5	26.5	5.7	.0	.0	.0	32.7	
3-4	.2	18.0	22.1	.4	.0	.0	40.6	
5-6	.0	4.0	14.9	.5	.1	.0	19.5	
7	.0	.4	4.1	.3	.0	.0	4.7	
8-9	.0	.0	.4	.1	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1130
TOT PCT	.9	50.4	47.3	1.3	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	9.8	16.5	9.4	2.7	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	923	4
6-7	.1	1.5	11.1	16.3	5.4	1.0	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	831	5
8-9	.0	.2	2.3	4.6	3.6	.9	.6	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	6
10-11	.0	.2	.6	.7	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	5
12-13	.0	.0	.3	.2	.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
>13	.0	.0	.0	.1	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
INDET	.6	1.5	2.8	2.2	.7	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
TOTAL	31	305	781	776	314	80	26	4	4	0	0	0	0	0	0	0	0	0	0	2321	4
PCT	1.3	13.1	33.6	33.4	13.5	3.4	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	7.7	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	.0	87.1
NE	.5	.9	.2	.0	.0	.0	.0	1.6	1.3	.2	.9	.0	.2	.0	.0	95.8
E	.9	.8	.3	.0	.0	.0	.0	1.9	1.4	.1	.1	.0	.3	.0	.0	96.2
SE	.8	2.3	.3	.0	.0	.0	.0	3.3	2.1	.0	.3	.0	.1	*		94.3
S	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	1.6		94.7
SW	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0		96.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	22.2	11.1	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0		66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	.9	1.3	.3	.0	.0	.0	.0	2.4	1.5	.1	.3	.0	.2	*		95.4
TOT OBS:	3537															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	1.3	.4	.0	.0	.0	.0	2.9	1.7	.4	.3	.0	.3	.0		94.4
06&09	.6	1.9	.4	.0	.0	.0	.0	2.9	1.6	.1	.6	.0	.1	.0		94.7
12&15	.9	1.0	.1	.0	.0	.0	.0	2.0	1.3	.0	.2	.0	.1	.1		96.3
18&21	.8	.8	.1	.0	.0	.0	.0	1.8	1.4	.0	.2	.0	.5	.0		96.1
TOT PCT	.9	1.3	.3	.0	.0	.0	.0	2.4	1.5	.1	.3	.0	.3	*		95.4
TOT OBS:	3533															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.4	.7	.1	.0	.0		1.2	12.8	1.6	.6	1.1	1.0	2.8	1.0	1.5	.6
NE	.2	8.9	10.2	.4	.0	.0		19.6	11.8	25.3	14.4	17.7	18.9	28.7	18.0	22.6	17.1
E	.5	24.6	22.0	1.1	*	.0		48.3	11.3	46.6	49.2	48.6	48.9	45.6	50.1	47.0	48.2
SE	.2	14.0	14.2	1.1	*	.0		29.5	11.8	24.5	34.2	31.7	30.0	20.7	29.8	27.1	32.2
S	.1	.6	.5	*	*	.0		1.1	10.4	1.2	1.3	.7	.9	1.4	.8	1.4	1.6
SW	*	.1	*	.0	.0	.0		.1	9.2	.2	*	*	*	.3	*	.2	.1
W	*	*	.0	.0	.0	.0		.1	4.1	.0	.0	*	.2	.0	.1	*	.1
NW	.0	*	*	*	.0	.0		*	12.3	.1	.0	*	.0	.2	*	*	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1							.1	.0	.4	.2	.1	.0	.1	.1	.1	.1
TOT OBS	135	5636	5530	312	4	0	11617		11.5	783	1290	2086	1362	848	1839	2008	1401
TOT PCT	1.2	48.5	47.6	2.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.7	.3	*	.0		1.2	12.8	1.0	1.0	1.6	1.1
NE	2.1	13.9	3.6	*	.0		19.6	11.8	18.5	18.2	21.4	20.4
E	6.1	35.2	6.8	.2	.0		48.3	11.3	48.2	48.7	48.7	47.5
SE	3.4	20.7	5.2	.2	.0		29.5	11.8	30.6	31.1	26.9	29.2
S	.2	.8	.1	*	.0		1.1	10.4	1.3	.8	1.0	1.5
SW	*	.1	*	.0	.0		.1	9.2	.1	*	.1	.2
W	*	*	.0	.0	.0		.1	4.1	.0	.1	.1	*
NW	*	*	*	.0	.0		*	12.3	*	*	.1	*
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.1						.1	.0	.3	.1	.1	.1
TOT OBS	1428	8288	1859	42	0	11617		11.5	2073	3448	2687	3409
TOT PCT	12.3	71.3	16.0	.4	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	1.0	51.7	44.4	2.6	*	.0	11.3	100.0	2073
06&09	.1	1.0	47.9	47.9	3.1	.0	.0	11.6	100.0	3448
12&15	.1	1.0	41.6	53.7	3.5	.1	.0	12.1	100.0	2687
18&21	.1	1.1	52.6	44.5	1.7	.0	.0	11.1	100.0	3409
TOT	15	120	5636	5530	312	4	0	11.5		11617
PCT	.1	1.0	48.5	47.6	2.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.4	.8	.3		4.5
NE	11.2	8.5	7.0	1.6		3.5
E	20.8	14.4	9.5	1.8		3.1
SE	9.1	6.2	5.2	1.1		3.4
S	.5	.3	.3	.1		3.3
SW	.1	*	*	*		4.2
W	.0	.0	.0	.0		.0
NW	.0	.0	.1	.1		7.0
VAR	.0	.0	.0	.0		.0
CALM	*	.1	*	.0		3.8
TOT OBS	1147	814	620	136	2717	3.3
TOT PCT	42.2	30.0	22.8	5.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	1.5	
NE	.0	.0	.1	.8	1.5	1.0	.7	.1	*	.0	23.9	
E	.0	.0	.1	1.3	2.2	1.5	1.0	.1	.0	*	40.3	
SE	.0	*	*	.8	1.5	.6	.3	.1	.0	.0	18.2	
S	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.9	
SW	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	
TOT OBS	0	1	6	81	154	92	60	9	1	1	2312	2717
TOT PCT	.0	*	.2	3.0	5.7	3.4	2.2	.3	*	*	85.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* DR >1/2	* DR >1/4	* DR >50YD	* DR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	2.1	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	5.1	5.8	6.0	6.0	6.0	6.0	6.0	6.0
* OR >1000	9.9	11.4	11.6	11.6	11.7	11.7	11.7	11.7
* OR >600	12.4	14.2	14.6	14.6	14.6	14.6	14.6	14.6
* OR >300	12.7	14.4	14.8	14.8	14.9	14.9	14.9	14.9
* OR >150	12.7	14.5	14.8	14.8	14.9	14.9	14.9	14.9
* OR > 0	12.7	14.5	14.8	14.8	14.9	14.9	14.9	14.9
TOTAL	345	393	403	403	405	405	405	405

TOTAL NUMBER OF OBS: 2719

PCT FREQ NH <5/8: 85.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	22.0	26.5	19.5	10.5	5.5	4.3	2.4	3.0	.0	2869

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
2<5	PCP	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	*	.1	.5	.2	.0	.0	.0	.0	.0	.0	.8	
	TOT %	*	.1	.6	.2	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.2	.2	.5	.3	*	*	.0	*	.0	.0	1.2	
	NO PCP	.2	2.5	4.5	2.0	.2	*	*	.0	.0	.0	9.5	
	TOT %	.4	2.7	5.0	2.4	.2	*	*	*	.0	.0	10.8	
10+	PCP	.1	.2	.3	.3	*	.0	.0	.0	.0	.0	.9	
	NO PCP	1.5	25.0	40.7	18.6	1.1	.2	.2	.1	.0	.1	87.3	
	TOT %	1.5	25.2	40.9	18.9	1.1	.2	.2	.1	.0	.1	88.2	
	TOT OBS												3531
	TOT PCT	1.9	28.1	46.5	21.5	1.3	.2	.2	.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.3	.2	*	.0	.0	.0	.0		.5	
	11-21	.0	.1	.2	*	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.5	.2	*	.0	.0	.0	.0	.0	.8	
5<10	0-3	.0	.0	.1	*	*	*	*	.0	.0	.0	.1	
	4-10	*	.8	1.8	1.0	.1	*	*	*	.0		3.9	
	11-21	.2	.8	1.8	.9	.1	.0	.0	*	.0		3.8	
	22+	*	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.2	1.7	3.7	1.9	.2	*	*	*	.0	.0	7.8	
10+	0-3	*	.2	.5	.2	.1	*	.1	.0	.0	.1	1.1	
	4-10	.4	10.8	26.6	12.7	.4	*	*	*	.0		50.9	
	11-21	.7	11.0	17.4	8.8	.5	.1	.0	*	.0		38.5	
	22+	.1	.3	.2	.1	.0	.0	.0	*	.0		.7	
	TOT %	1.1	22.3	44.7	21.8	1.0	.1	.1	*	.0	.1	91.2	
	TOT OBS												6067
	TOT PCT	1.3	24.2	49.0	23.9	1.2	.1	.1	.1	.0	.1	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.1	4.6	2.7	2.1	.1	.1	.0	11.8	88.2	667
06&09	.0	.0	.3	4.1	5.1	3.9	1.9	.1	.0	.0	15.4	84.6	690
12&15	.0	.1	.4	3.1	6.4	3.2	2.2	.7	.0	.1	16.2	83.8	740
18&21	.0	.0	.1	2.2	5.7	3.1	2.3	.3	.0	.0	13.6	86.4	742
TOT	0	1	6	81	155	92	60	9	1	1	406	2433	2839
PCT	.0	*	.2	2.9	5.5	3.2	2.1	.3	*	*	14.3	85.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.0	1.0	8.4	90.5	1236
06&09	.0	.0	.0	.6	9.3	90.1	1734
12&15	.0	.1	.0	.5	5.6	93.8	1380
18&21	.1	.1	.3	1.3	7.9	90.4	1734
TOT	3	2	5	52	479	5543	6084
PCT	*	*	.1	.9	7.9	91.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.7	9.8	87.5	631
06&09	.0	.3	4.9	11.3	83.8	656
12&15	.0	.7	4.0	12.8	83.2	720
18&21	.0	.3	2.8	11.4	85.8	712
TOT	0	9	98	309	2312	2719
PCT	.0	.3	3.6	11.4	85.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	*	.0	*	.0	5	.2
85/89	.0	.0	.0	.3	1.4	1.2	.4	.2	103	3.4
80/84	.0	.0	.0	.4	6.8	24.3	8.0	4.4	1324	43.8
75/79	.0	.0	*	.0	1.4	26.6	19.6	4.5	1574	52.1
70/74	.0	.0	.0	.0	.0	*	.1	.4	15	.5
TOTAL	0	0	1	23	287	1574	850	286	3021	100.0
PCT	.0	.0	*	.8	9.5	52.1	28.1	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	*	.0	.0	.0	.0	.0
.0	1.1	1.5	.5	.2	*	.1	.0	.0	.0
.7	13.8	20.5	8.0	.5	*	.1	.1	.0	.1
.9	12.5	24.9	12.9	.7	.1	.0	*	.0	.1
*	.1	.3	.1	*	.0	.0	.0	.0	.0
1.7	27.5	47.3	21.5	1.4	.1	.2	.1	.0	.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	82	80	79	77	75	69	78.5	2051
06&09	91	83	81	78	76	75	69	78.6	3395
12&15	94	87	85	81	78	76	68	81.1	2576
18&21	94	87	84	80	77	76	68	80.3	3295
TOT	94	86	83	79	77	75	68	79.6	11317

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	3.2	51.9	36.1	8.6	80	648
06&09	.0	.1	3.5	47.0	36.9	12.4	81	804
12&15	.0	1.9	15.1	54.9	19.2	9.0	77	782
18&21	.0	.9	15.2	53.9	22.1	8.0	77	802
TOT	0	24	289	1575	858	290	79	3036

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	*	.0	.1	.0	3	.0	.1
9/10	.0	.0	.0	.0	.1	.2	.1	.0	13	.0	.4
7/8	.0	.0	.0	.1	.1	.7	.1	.0	29	.0	1.0
6	.0	.0	.0	.1	.1	.6	.1	.0	27	.0	.9
5	.0	.0	.0	.2	.8	.6	*	.0	48	.0	1.6
4	.0	.0	.0	.4	1.6	.4	.0	.0	72	.1	2.3
3	.0	.0	.0	.7	3.2	.2	.0	.0	122	.0	4.1
2	.0	.0	.0	1.9	6.4	.1	.0	.0	250	.1	8.3
1	.0	.0	*	7.2	5.4	*	.0	.0	377	.1	12.6
0	.0	.0	.0	16.8	4.6	*	.0	.0	637	.1	21.2
-1	.0	.0	*	18.3	1.7	*	.0	.0	599	.0	20.1
-2	.0	.0	.4	12.2	.7	.0	.0	.0	395	*	13.2
-3	.0	.0	.6	6.1	.2	.0	.0	.0	206	.0	6.9
-4	.0	*	1.0	2.9	.1	.0	.0	.0	119	.0	4.0
-5	.0	.0	.5	1.0	*	.0	.0	.0	46	.0	1.5
-6	.0	.0	.3	.1	.0	.0	.0	.0	14	.0	.5
-7/-8	.0	.1	.3	.1	*	.0	.0	.0	17	.0	.6
-9/-10	.0	*	.0	.1	.0	.0	.0	.0	3	.0	.1
-11/-13	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		96		749		12			12	2967
		4		2028		88		1	2979		
PCT	*	.1	3.2	68.1	25.1	3.0	.4	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.1	.6	.3	.0	.0	.9
7	.0	.0	.2	.2	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.8	.3	.0	.0	1.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	.0	.0	.0	.0	.1
1-2	.0	6.6	2.1	.0	.0	.0	8.7
3-4	*	5.6	7.1	.0	.0	.0	12.7
5-6	.0	.5	5.3	.1	.0	.0	5.9
7	.0	.1	1.5	.5	.0	.0	2.1
8-9	.0	.0	.4	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	12.8	16.4	.7	.0	.0	30.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5
1-2	.3	13.4	3.3	.0	.0	.0	17.1
3-4	.1	10.7	10.1	.1	.0	.0	20.9
5-6	.0	1.6	5.2	.0	.0	.0	6.8
7	.0	.1	1.5	.1	.0	.0	1.7
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	26.1	20.5	.1	.0	.0	47.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	*	.0	.0	.0	.5
1-2	*	4.9	1.3	.0	.0	.0	6.3
3-4	.0	4.1	4.0	.0	.0	.0	8.1
5-6	.0	1.3	2.5	.0	.0	.0	3.8
7	.0	*	.8	.0	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	10.7	8.8	.0	.0	.0	19.7

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

TABLE 18 (CONT)

AREA 0006 RECIFE 9.1S 34.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.1	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.2	.0	.0	.0	.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	*	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.1	.0	.0	.1	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	.6	.1	.0	.0	.0	1.5	
1-2	.3	25.5	6.8	.0	.0	.0	32.6	
3-4	.1	20.8	21.3	.1	.0	.0	42.3	
5-6	.0	3.6	13.5	.3	.0	.0	17.5	
7	.0	.3	3.9	.8	.0	.0	5.0	
8-9	.0	.0	.8	.1	.0	.0	.9	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1190
TOT PCT	1.3	50.8	46.7	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	10.6	20.7	9.5	2.0	.2	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	973	3
6-7	*	1.7	11.1	14.4	5.5	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	5
8-9	.0	.3	2.1	3.5	2.2	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	5
10-11	.0	.3	.4	1.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	5
12-13	.0	.0	.5	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
>13	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
INDET	.6	1.9	3.3	2.3	.9	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	4
TOTAL	36	326	839	684	238	43	25	3	5	0	0	0	0	0	0	0	0	0	0	2199	4
PCT	1.6	14.8	38.2	31.1	10.8	2.0	1.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.1	.0	.0	.0	.0	.0	.0	3.1	1.6	.0	.0	.0	.0		.0	95.3
NE	.2	.3	.1	.0	.0	.0	.0	.6	.3	.1	.1	.0	.0		.0	98.8
E	.3	.9	.2	.0	.0	.0	.0	1.4	1.6	.2	.7	.0	.0		.0	96.2
SE	.3	1.7	.1	.0	.0	.0	.0	2.1	1.6	.1	.3	.0	.0		.1	95.9
S	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0		.0	97.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	18.2	.0	.0	.0	.0	.0	18.2	18.2	.0	.0	.0	.0		.0	63.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5		.0	87.5
TOT PCT	.4	1.0	.1	.0	.0	.0	.0	1.4	1.3	.1	.4	.0	*		*	96.7
TOT OBS:	3380															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	1.0	.3	.0	.0	.0	.0	1.2	1.0	.3	.1	.0	.0		.0	97.4
06609	.8	1.1	.1	.0	.0	.0	.0	2.0	2.0	.2	.5	.0	.0		.0	95.2
12615	.3	.6	.0	.0	.0	.0	.0	.9	1.0	.0	.2	.0	.0		.0	97.9
18621	.3	1.4	.1	.0	.0	.0	.0	1.7	1.1	.0	.8	.0	.1		.1	96.2
TOT PCT	.4	1.0	.1	.0	.0	.0	.0	1.5	1.3	.1	.4	.0	*		*	96.6
TOT OBS:	3416															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	*	.5	.6	*	.0	.0		1.2	11.7	1.1	.4	.9	1.4	3.0	1.3	1.4	.9
NE	.3	9.6	8.6	.3	*	.0		18.8	11.1	22.9	15.3	17.0	18.3	24.5	18.7	21.3	15.7
E	.6	26.3	19.4	.7	*	.0		47.0	10.7	47.7	47.9	48.1	46.3	49.1	45.6	45.9	46.6
SE	.4	16.2	14.1	.8	*	.0		31.5	11.2	26.9	35.1	32.5	32.6	22.0	32.8	30.1	34.9
S	.1	.5	.4	*	*	.0		1.0	10.8	.9	.9	.8	.8	.9	1.1	.9	1.6
SW	*	.1	*	.0	.0	.0		.1	6.2	.0	.2	.2	.1	*	.1	.2	*
W	*	*	*	.0	.0	.0		.1	6.6	.2	.0	.1	.1	.0	.2	*	.1
NW	*	*	*	*	.0	.0		.1	5.8	*	.0	.0	.2	.1	.1	*	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	.1	.3	.3	.1	.4	.1	.2	.1
TOT OBS	189	5931	4817	210	8	0	11155		10.9	786	1195	1999	1262	842	1752	1994	1325
TOT PCT	1.7	53.2	43.2	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.8	.2	.0	.0		1.2	11.7	.7	1.1	1.8	1.2
NE	2.4	14.2	2.1	*	.0		18.8	11.1	18.3	17.5	20.6	19.1
E	7.3	34.6	4.9	.1	.0		47.0	10.7	47.8	47.4	46.8	46.2
SE	4.7	22.3	4.4	.2	.0		31.5	11.2	31.8	32.6	29.3	32.0
S	.2	.7	.1	*	.0		1.0	10.8	.9	.8	1.1	1.2
SW	.1	.1	.0	.0	.0		.1	6.2	.1	.2	.1	.1
W	.1	*	.0	.0	.0		.1	6.6	.1	.1	.1	.1
NW	*	*	*	.0	.0		.1	5.8	*	.1	.1	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.2	.2	.2	.2
TOT OBS	1694	8106	1319	36	0	11155		10.9	1981	3261	2594	3319
TOT PCT	15.2	72.7	11.8	.3	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.2	1.6	55.1	41.2	1.8	.1	.0	10.8	100.0	1981
06&09	.2	1.4	53.5	42.8	2.0	.1	.0	10.9	100.0	3261
12&15	.2	1.4	47.3	48.6	2.4	.2	.0	11.4	100.0	2594
18&21	.2	1.7	56.2	40.4	1.4	*	.0	10.6	100.0	3319
TOT	19	170	5931	4817	210	8	0	10.9		11155
PCT	.2	1.5	53.2	43.2	1.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.7	.4	.1		3.5
NE	10.4	8.0	5.0	1.1		3.2
E	20.9	16.1	9.5	1.3		3.1
SE	9.8	8.6	5.3	.8		3.2
S	.4	.1	.3	*		3.5
SW	.0	.0	*	*		7.2
W	.0	.0	*	.1		7.1
NW	.0	.0	*	*		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.1	.0		2.2
TOT OBS	1128	893	552	90	2663	3.2
TOT PCT	42.4	33.5	20.7	3.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.3	.1	.0	.0	.0	*	1.4	
NE	*	.0	*	.4	1.6	.4	.3	.1	.1	.1	21.7	
E	.0	.0	.1	1.0	2.1	.9	.7	.1	.1	*	42.7	
SE	.0	.0	*	.5	.9	.4	.5	.1	.0	*	22.0	
S	.0	.0	*	.1	.1	*	.0	.0	.0	*	.7	
SW	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
W	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	
NW	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.2	
TOT OBS	1	0	5	55	133	49	38	8	4	6	2364	2663
TOT PCT	*	.0	.2	2.1	5.0	1.8	1.4	.3	.2	.2	88.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5040	* OR >0
* OR >6500	.3	.3	.4	.4	.4	.4	.4	.4
* OR >5000	.6	.6	.7	.7	.7	.7	.7	.7
* OR >3500	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >1000	8.3	8.9	9.0	9.0	9.0	9.0	9.0	9.0
* OR >600	10.0	10.9	11.0	11.0	11.0	11.0	11.0	11.0
* OR >300	10.2	11.1	11.2	11.2	11.2	11.2	11.2	11.2
* OR >150	10.2	11.1	11.2	11.2	11.2	11.2	11.2	11.2
* OR > 0	10.2	11.1	11.3	11.3	11.3	11.3	11.3	11.3
TOTAL	274	297	301	301	301	301	301	301

TOTAL NUMBER OF OBS: 2674

PCT FREQ NH <5/8: 88.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	20.8	29.2	21.0	10.5	3.9	3.8	1.9	1.7	*	2816

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	*	.2	.5	.3	.1	.0	.0	*	.0	.0	1.1	
	TOT %	*	.2	.6	.3	.1	.0	.0	*	.0	.0	1.2	
5<10	PCP	.0	.1	.3	.2	*	.0	*	.0	.0	.0	.5	
	NO PCP	.1	1.8	4.4	3.5	.1	.0	.1	.0	.0	.0	10.0	
	TOT %	.1	1.9	4.7	3.6	.2	.0	.1	.0	.0	.0	10.5	
10+	PCP	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	1.7	21.2	41.8	21.4	1.0	*	*	.1	.0	.2	87.5	
	TOT %	1.8	21.2	42.1	21.7	1.0	*	*	.1	.0	.2	88.2	
	TOT OBS												3368
	TOT PCT	1.9	23.3	47.3	25.7	1.2	*	.2	.1	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.1	.2	.1	*	.0	.0	*	.0		.5	
	11-21	.0	*	.2	.1	*	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.4	.3	.1	.0	.0	*	.0	.0	.9	
5<10	0-3	*	*	*	.1	.0	.0	*	.0	.0	.0	.2	
	4-10	*	.6	2.2	1.8	*	.0	*	.0	.0		4.7	
	11-21	*	.8	1.5	.9	.1	.0	*	.0	.0		3.2	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	1.4	3.7	2.8	.1	.0	.1	.0	.0	.0	8.1	
10+	0-3	*	.3	.6	.4	*	*	*	.1	.0	.2	1.6	
	4-10	.5	10.8	27.0	14.2	.5	*	*	*	.0		53.0	
	11-21	.8	9.9	16.8	7.9	.2	*	*	*	.0		35.6	
	22+	*	.2	.3	.1	.0	.0	.0	*	.0		.7	
	TOT %	1.4	21.1	44.7	22.6	.8	.1	*	.1	.0	.2	90.9	
	TOT OBS												5816
	TOT PCT	1.5	22.7	48.9	25.7	.9	.1	.1	.1	.0	.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.3	2.1	3.7	1.7	.6	.3	.0	.3	9.0	91.0	652
06&09	.0	.0	.3	1.6	5.5	.9	1.5	.1	.3	.1	10.4	89.6	674
12&15	.0	.0	.0	2.3	5.1	2.0	1.4	.1	.1	.0	11.1	88.9	738
18&21	.1	.0	.1	1.9	4.9	2.4	1.9	.5	.1	.4	12.4	87.6	739
TOT	1	0	5	56	135	50	38	8	4	6	303	2500	2803
PCT	*	.0	.2	2.0	4.8	1.8	1.4	.3	.1	.2	10.8	89.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.2	.9	7.4	91.5	1185
06&09	.1	.0	.2	1.2	9.6	88.9	1643
12&15	.0	.0	.1	.3	6.9	92.7	1335
18&21	.0	.0	.1	1.0	8.3	90.6	1691
TOT	1	0	8	52	478	5315	5854
PCT	*	.0	.1	.9	8.2	90.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.3	3.7	6.9	89.4	620
06&09	.0	.3	3.6	8.5	87.8	633
12&15	.0	.0	2.4	9.1	88.5	715
18&21	.1	.3	2.8	10.8	86.4	706
TOT	1	6	83	238	2353	2674
PCT	*	.2	3.1	8.9	88.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.1	.0	.0	11	.4
85/89	.0	.0	.1	.2	2.0	1.6	.7	.2	140	4.8
80/84	.0	.0	.0	.2	7.7	34.0	12.3	5.6	1737	59.8
75/79	.0	.0	.0	*	1.1	17.2	12.8	3.8	1014	34.9
70/74	.0	.0	.0	.0	.0	*	.0	.1	4	.1
TOTAL	0	0	2	17	319	1537	750	281	2906	100.0
PCT	.0	.0	.1	.6	11.0	52.9	25.8	9.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
.1	1.2	2.3	1.2	.1	.0	.0	.0	.0	.0
1.0	13.8	28.7	15.6	.6	*	.1	*	.0	.1
.4	7.3	17.3	9.1	.5	*	.1	.1	.0	.1
.0	.0	.1	*	.0	.0	*	.0	.0	.0
1.5	22.4	48.5	25.9	1.2	*	.2	.1	.0	.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	82	81	79	77	75	71	79.2	1959
06&09	94	83	82	79	77	75	72	79.2	3216
12&15	95	87	85	81	79	77	69	81.7	2513
18&21	94	88	85	81	78	77	72	80.9	3223
TOT	95	86	84	80	77	76	69	80.3	10911

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	4.0	54.1	32.4	9.4	80	630
06&09	.0	.1	2.8	48.1	35.4	13.5	81	742
12&15	.0	.8	16.3	55.9	19.3	7.7	77	766
18&21	.0	1.4	18.8	53.0	18.6	8.2	76	789
TOT	0	19	319	1544	762	283	78	2927

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

AREA 0006 RECIFE
9.1S 34.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	*	.0	.1	.0	5	.0	.2
9/10	.0	.0	*	.1	.1	.3	.0	16	.0	.6
7/8	.0	.0	*	.1	.6	.2	.0	28	.0	1.0
6	.0	.0	*	.2	.8	*	.0	31	.0	1.1
5	.0	.0	.2	.5	1.1	.0	.0	54	.0	1.9
4	.0	.0	.3	1.4	1.0	.0	.0	78	.0	2.7
3	.0	.0	.2	2.4	.4	.0	.0	88	.0	3.0
2	.0	.0	.8	5.5	.2	.0	.0	187	.0	6.5
1	.0	.0	3.7	9.0	.1	.0	.0	371	*	12.8
0	.0	.0	10.9	8.8	.1	.0	.0	574	.2	19.6
-1	.0	.0	18.1	4.0	.0	.0	.0	640	.2	21.9
-2	.0	.2	13.1	1.3	.0	.0	.0	421	.1	14.5
-3	.0	.1	6.1	.2	*	.0	.0	185	*	6.4
-4	.0	.2	4.1	.2	*	.0	.0	133	.0	4.6
-5	.0	.3	.9	.1	.1	.0	.0	43	.0	1.5
-6	.0	.3	.3	.0	.0	.0	.0	16	.0	.6
-7/-8	.0	.2	.2	.0	.0	.0	.0	12	.0	.4
-9/-10	.1	*	.1	.1	.0	.0	.0	8	.0	.3
-11/-13	.0	.0	.2	.0	.0	.0	.0	5	.0	.2
TOTAL	2		1713		130		1		14	2882
		40		988		22		2896		
PCT	.1	1.4	59.2	34.1	4.5	.8	*	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.3	.1	.0	.0	.0	.4
3-4	.0	.3	.7	.1	.0	.0	1.0
5-6	.0	.0	.7	.1	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	1.7	.1	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	6.6	2.5	.0	.0	.0	9.1
3-4	.0	5.4	4.9	.1	.0	.0	10.4
5-6	.1	.7	4.1	*	.0	.0	4.9
7	.0	.1	.9	.1	.0	.0	1.1
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	13.0	12.7	.2	.0	.0	26.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.5	15.2	3.9	.0	.0	.0	19.6
3-4	.0	10.3	8.7	.3	.0	.0	19.3
5-6	.0	2.3	3.8	.0	.0	.0	6.2
7	.0	.4	1.2	.0	.0	.0	1.6
8-9	.0	.1	.3	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	29.5	17.9	.3	.0	.0	48.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.6
1-2	*	6.3	1.8	.0	.0	.0	8.1
3-4	.0	4.2	4.7	*	.0	.0	9.0
5-6	.0	.9	2.4	.0	.0	.0	3.4
7	.0	.1	.6	.1	.0	.0	.8
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	12.0	9.7	.1	.0	.0	21.9

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0006 RECIFE

TABLE 18 (CONT) 9.1S 34.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.6	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	.0	.0	.0	1.0	.0	*	.0	.0	.0	.0	*

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.5	2.0	.1	.0	.0	.0	2.6	
1-2	.7	28.5	8.2	.0	.0	.0	37.4	
3-4	.0	20.7	19.0	.5	.0	.0	40.3	
5-6	.1	3.9	11.0	.1	.0	.0	15.1	
7	.0	.5	3.1	.2	.0	.0	3.8	
8-9	.0	.1	.6	.0	.0	.0	.7	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1093
TOT PCT	1.3	55.7	42.2	.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	11.7	21.8	8.4	2.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1011	3
6-7	.0	.9	14.2	14.9	3.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	747	4
8-9	.0	.5	2.2	3.4	2.1	.5	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	5
10-11	.0	.2	.4	.4	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
12-13	.0	.0	.9	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
>13	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
INDET	.6	2.2	4.1	1.6	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	205	3
TOTAL	37	344	964	639	182	35	11	1	1	0	0	0	0	0	0	0	0	0	0	2214	4
PCT	1.7	15.5	43.5	28.9	8.2	1.6	.5	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1974
(OVER-ALL) 1854-1974

AREA 0006 RECIFE
9.15 34.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.5	4.7	1.0	.0	.0	.0	.0	10.2	2.6	.6	.0	.0	.0	.0		86.6
NE	1.6	2.9	.5	.0	.0	.0	.0	4.9	2.5	.3	.6	.0	.3	.1		91.3
E	1.3	2.9	.4	.0	.0	.0	.0	4.5	3.5	.4	.6	.0	.1	*		90.9
SE	1.4	2.9	.4	.0	.0	.0	.0	4.7	3.4	.2	.3	.0	.1	*		91.2
S	2.4	2.9	.6	.0	.0	.0	.0	5.9	3.0	.1	.2	.0	.2	.1		90.4
SW	5.7	1.1	4.5	.0	.0	.0	.0	10.7	4.4	.5	.0	.0	.3	.0		84.0
W	1.3	5.6	2.0	.0	.0	.0	.0	8.8	6.8	.0	1.4	.0	.0	.0		83.0
NW	12.6	9.0	5.1	.0	.0	.0	.0	22.6	12.3	.1	1.3	.0	.0	.0		63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.8	.6	.0	.0	.0	.0	.0	5.4	4.4	.4	.0	.0	1.5	.0		88.3
TOT PCT	1.5	2.8	.5	.0	.0	.0	.0	4.7	3.3	.3	.4	.0	.2	*		91.0
TOT OBS: 43790																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	2.8	.5	.0	.0	.0	.0	4.5	3.5	.8	.3	.0	.1	.0		90.8
06&09	1.9	3.6	.6	.0	.0	.0	.0	6.0	3.9	.6	.6	.0	.2	*		88.8
12&15	1.5	2.5	.5	.0	.0	.0	.0	4.4	2.9	*	.3	.0	.2	*		92.2
18&21	1.3	2.6	.4	.0	.0	.0	.0	4.3	3.1	*	.5	.0	.2	*		91.8
TOT PCT	1.5	2.9	.5	.0	.0	.0	.0	4.8	3.3	.3	.4	.0	.2	*		90.9
TOT OBS: 44204																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.4	.2	*	*	.0		.7	9.4	.6	.4	.6	.7	1.3	.8	.8	.4
NE	.2	5.0	3.7	.1	*	.0		9.0	10.0	11.1	7.2	8.7	8.5	11.9	8.8	10.0	7.4
E	.8	19.8	14.5	.8	*	.0		35.9	10.9	38.7	34.7	36.5	34.5	39.4	35.1	36.2	33.6
SE	.9	21.5	22.6	2.3	*	.0		47.4	11.6	42.6	51.2	47.9	48.8	40.8	48.0	46.0	50.4
S	.3	2.6	2.7	.4	*	.0		5.9	11.0	6.2	5.8	5.4	5.7	5.4	5.9	6.0	7.2
SW	.1	.3	.1	*	*	.0		.5	8.2	.3	.3	.3	.8	.5	.7	.4	.6
W	*	.1	*	*	*	.0		.1	7.7	.1	*	.1	.3	.2	.2	.1	.1
NW	*	.1	*	*	.0	.0		.1	7.6	.1	.1	.1	.3	.2	.2	.1	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.4	.3	.5	.3	.3	.3	.4	.3
TOT OBS							132821		11.2	9836	14382	23620	15391	10348	19281	23877	16086
TOT PCT	2.8	49.7	43.8	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

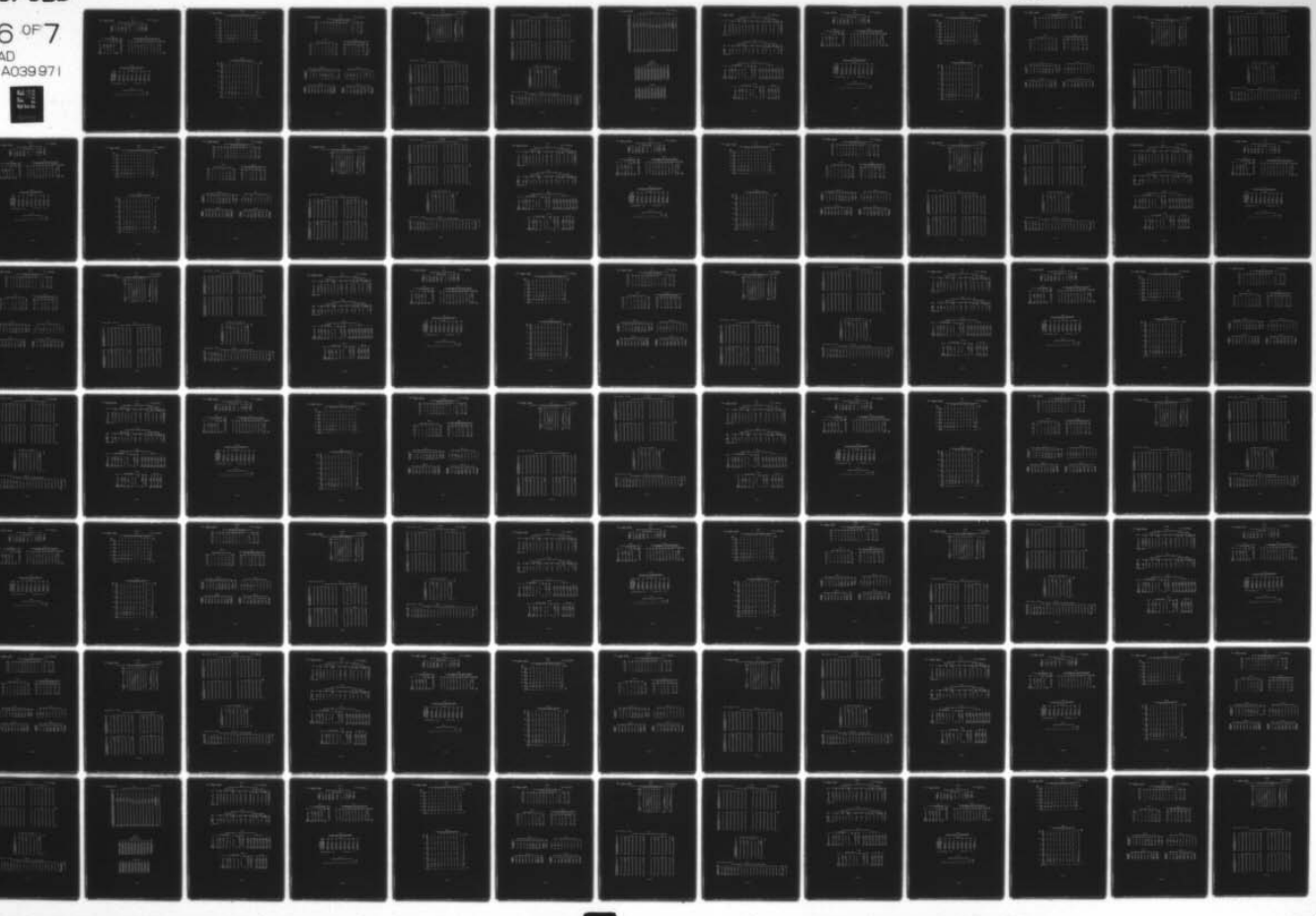
TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.4	.1	*	.0		.7	9.4	.5	.6	1.0	.6
NE	1.7	6.3	1.0	*	.0		9.0	10.0	8.8	8.6	9.9	9.0
E	6.2	25.4	4.1	.1	*		35.9	10.9	36.3	35.7	36.7	35.1
SE	6.7	31.1	9.2	.4	*		47.4	11.6	47.7	48.3	45.5	47.8
S	1.1	3.5	1.3	.1	*		5.9	11.0	5.9	5.5	5.7	6.5
SW	.2	.2	*	*	.0		.5	8.2	.3	.5	.6	.5
W	.1	*	*	*	.0		.1	7.7	.1	.2	.2	.1
NW	.1	.1	*	.0	.0		.1	7.6	.1	.2	.2	.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.4	.4	.3	.4
TOT OBS						132821		11.2	24218	39011	29629	39963
TOT PCT	16.6	67.1	15.7	.6	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1908-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	2.0	52.1	42.1	3.4	.1	.0	11.1	100.0	24218
06&09	.4	2.4	49.9	43.3	3.9	.1	.0	11.3	100.0	39011
12&15	.3	2.5	45.3	47.7	4.2	.1	.0	11.7	100.0	29629
18&21	.4	2.7	51.3	42.4	3.2	.1	.0	11.0	100.0	39963
TOT								11.2		132821
PCT	.4	2.4	49.7	43.8	3.7	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.2	.3	.1		4.2
NE	4.9	3.7	2.6	.7		3.4
E	15.1	12.5	9.8	2.5		3.6
SE	13.6	12.8	11.0	3.1		3.6
S	1.6	1.6	1.8	.7		3.9
SW	.1	.1	.1	.1		5.2
W	*	*	.1	*		4.9
NW	*	*	.1	.1		5.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	*		2.7
TOT OBS					33060	3.6
TOT PCT	35.7	31.1	25.9	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	*	.1	.1	*	*	*	*	.7	
NE	*	*	.1	.4	.7	.3	.2	*	*	*	10.1	
E	.1	*	.3	1.5	2.7	1.4	.7	.2	.1	.1	32.8	
SE	.1	*	.3	2.0	3.3	1.7	.9	.3	.1	.1	31.7	
S	*	*	.1	.4	.6	.3	.2	*	*	*	4.0	
SW	*	*	*	*	.1	*	*	.0	*	*	.2	
W	*	.0	*	*	*	*	*	*	*	.0	.1	
NW	*	.0	*	*	*	*	*	*	.0	*	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	*	*	.0	.0	.0	.0	.3	
TOT PCT	.2	.1	.7	4.5	7.6	4.0	2.0	.5	.2	.2	80.0	33060 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >3000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.3	2.8	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	5.5	6.5	6.7	6.8	6.8	6.8	6.8	6.8
* OR >1000	11.6	13.9	14.3	14.4	14.4	14.5	14.5	14.5
* OR >600	14.9	18.1	18.8	18.9	18.9	18.9	19.0	19.0
* OR >300	15.3	18.7	19.5	19.6	19.7	19.7	19.7	19.7
* OR >150	15.4	18.8	19.6	19.7	19.8	19.8	19.8	19.8
* OR > 0	15.4	18.9	19.8	19.9	20.0	20.0	20.0	20.0

TOTAL NUMBER OF OBS: 33175 PCT FREQ NH <5/8: 80.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.6	17.8	24.8	20.3	11.3	6.1	5.4	3.9	4.6	.1	34897

PERIOD: (PRIMARY) 1908-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	*	*	*	*	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	*	*	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	*	*	.0	*	.0	.0	.1	
	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	*	*	*	*	.0	*	*	.0	*	*	
	TOT %	*	*	*	.1	*	*	*	*	.0	*	.1	
	PCP	*	*	*	.1	*	*	.0	*	.0	.0	.2	
1<2	NO PCP	*	*	*	*	*	.0	.0	.0	.0	*	.1	
	TOT %	*	*	.1	.1	*	*	.0	*	.0	*	.2	
	PCP	*	*	.2	.2	.1	*	*	*	.0	.0	.5	
2<5	NO PCP	*	.1	.4	.5	.2	*	*	*	.0	*	1.4	
	TOT %	*	.2	.6	.8	.3	.1	*	*	.0	*	2.0	
	PCP	*	.1	.7	.9	.2	*	*	*	.0	*	2.0	
5<10	NO PCP	.1	1.1	4.4	5.2	.9	.1	.1	*	.0	*	12.0	
	TOT %	.1	1.2	5.1	6.1	1.1	.2	.1	.1	.0	*	14.0	
	PCP	*	.1	.6	.8	.2	*	*	*	.0	*	1.9	
10+	NO PCP	.7	9.9	32.2	32.9	4.9	.4	.1	.1	.0	.3	81.7	
	TOT %	.8	10.0	32.8	33.8	5.1	.5	.1	.1	.0	.3	83.6	
	TOT OBS												43731
	TOT PCT	.9	11.4	38.6	40.9	6.6	.7	.2	.2	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	*	*	*	.0	.0	.0	.0	.0	*	
<1/2	4-10	.0	*	*	*	*	*	.0	*	.0		*	
	11-21	.0	*	*	*	*	*	.0	*	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	*	.0	*	.0	.0	.1	
	0-3	.0	*	*	*	*	*	.0	*	.0	*	*	
1/2<1	4-10	.0	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.1	*	*	*	*	.0	*	.1	
	0-3	.0	.0	*	*	*	*	*	.0	.0	*	*	
1<2	4-10	*	*	*	.1	*	*	*	*	.0		.1	
	11-21	*	*	*	.1	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.2	.1	*	*	*	.0	*	.3	
	0-3	*	*	*	*	*	*	*	.0	.0	*	.1	
2<5	4-10	*	.1	.2	.4	.1	*	*	*	.0		.8	
	11-21	*	*	.2	.4	.1	*	*	*	.0		.8	
	22+	*	*	*	.1	*	.0	*	*	.0		.1	
	TOT %	*	.1	.5	.8	.2	.1	*	*	.0	*	1.8	
	0-3	*	*	.1	.1	.1	*	*	*	.0	*	.4	
5<10	4-10	*	.5	2.1	2.3	.4	.1	*	*	.0		5.5	
	11-21	*	.4	1.6	2.7	.4	*	*	*	.0		5.2	
	22+	*	*	.1	.3	*	*	*	*	.0		.4	
	TOT %	.1	.9	3.9	5.4	.9	.1	*	*	.0	*	11.5	
	0-3	.1	.2	.7	.9	.2	.1	*	*	.0	.3	2.5	
10+	4-10	.4	5.2	19.4	18.9	2.2	.2	.1	.1	.0		46.4	
	11-21	.3	3.8	12.5	16.7	2.1	.1	*	*	.0		35.5	
	22+	*	.1	.3	1.1	.2	*	*	*	.0		1.7	
	TOT %	.7	9.3	33.0	37.5	4.8	.4	.1	.1	.0	.3	86.1	
	TOT OBS												76735
	TOT PCT	.8	10.4	37.6	44.0	6.0	.6	.2	.2	.0	.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.1	.8	4.0	6.6	3.6	1.6	.5	.1	.1	17.6	82.4	8179
06&09	.3	.1	.6	4.7	8.0	3.6	1.9	.5	.2	.2	20.0	80.0	8152
12&15	.1	.1	.8	4.6	7.7	4.1	1.9	.7	.2	.1	20.3	79.7	9041
18&21	.2	.2	.6	4.1	7.2	3.9	2.2	.4	.3	.2	19.3	80.7	9178
TOT													34550
PCT	.2	.1	.7	4.3	7.4	3.8	1.9	.5	.2	.2	19.4	80.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.3	1.9	12.1	85.5	15471
06&09	.1	.1	.3	1.9	12.9	84.7	21631
12&15	*	.1	.3	1.4	9.7	88.4	17541
18&21	.1	.2	.5	2.0	11.5	85.7	22514
TOT							77157
PCT	.1	.1	.4	1.8	11.6	86.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.2	6.6	12.5	80.9	7814
06&09	.3	1.1	7.3	14.3	78.4	7747
12&15	.1	1.2	6.7	14.5	78.8	8764
18&21	.2	1.1	6.4	14.0	79.6	8850
TOT						33175
PCT	.2	1.1	6.7	13.9	79.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	*	*	.0	.0		*
90/94	.0	*	*	.1	.2	*	*	*		.4
85/89	.0	.0	*	.2	1.5	1.7	.6	.3		4.3
80/84	.0	.0	*	.3	6.5	27.1	12.1	4.1		50.1
75/79	.0	.0	*	.1	2.9	20.6	13.8	5.7		43.2
70/74	.0	.0	.0	*	*	.2	.6	1.1		1.9
TOTAL									36546	100.0
PCT	.0	*	*	.7	11.1	49.7	27.2	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	*	.0	.0	.0	.0	.0
.0	*	.1	.2	*	*	*	.0	.0	*
.1	.7	1.7	1.4	.3	.1	*	*	.0	*
.5	6.6	21.0	19.0	2.4	.3	.1	.1	.0	.2
.3	3.8	15.4	19.7	3.5	.3	.1	.1	.0	.1
*	.1	.6	.9	.3	.1	*	*	.0	*
.9	11.1	38.8	41.2	6.5	.7	.2	.2	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	82	81	79	76	74	64	78.8	24003
06&09	94	83	81	79	76	74	63	78.7	38472
12&15	95	87	85	81	78	75	68	81.0	28764
18&21	99	87	84	80	77	75	66	80.2	38927
TOT	99	86	83	80	77	75	63	79.7	130166

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	5.0	51.3	33.2	10.3	80	7797
06&09	.0	.3	4.3	46.3	34.0	15.1	81	9511
12&15	.0	1.1	16.5	51.0	22.0	9.4	77	9529
18&21	.0	1.3	17.1	50.0	21.4	10.2	77	10038
TOT	0	273	4086	18267	10088	4161	79	36875

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	*	.0	.0	*	6	.0	*
11/13	.0	.0	.0	*	*	*	*	*	49	.0	.1
9/10	.0	.0	.0	*	.1	.1	.1	*	103	.0	.3
7/8	.0	.0	.0	.1	.1	.4	.2	*	252	.0	.7
6	.0	.0	.0	*	.2	.4	.1	.0	238	.0	.7
5	.0	.0	*	.1	.5	.5	*	.0	429	.0	1.2
4	.0	*	*	.3	1.1	.6	*	.0	746	*	2.0
3	.0	.0	*	.5	1.6	.6	*	.0	1008	*	2.8
2	.0	.0	*	1.6	3.8	.5	.0	.0	2169	*	5.9
1	.0	.0	.2	4.4	5.4	.4	.0	.0	3775	*	10.3
0	.0	.0	.5	10.1	8.0	.1	*	.0	6820	.1	18.6
-1	.0	*	1.0	13.3	6.8	.1	.0	.0	7776	.1	21.1
-2	*	*	1.6	10.3	3.7	*	.0	.0	5733	.1	15.6
-3	.0	*	1.7	5.9	1.5	*	.0	.0	3298	*	9.0
-4	.0	*	1.6	3.3	.6	*	.0	.0	2016	*	5.5
-5	.0	*	1.0	1.6	.3	*	.0	.0	1075	.0	2.9
-6	.0	.1	.7	.6	.1	.0	.0	.0	516	*	1.4
-7/-8	.0	.1	.5	.3	*	.0	.0	.0	371	.0	1.0
-9/-10	*	.1	.1	.1	*	.0	.0	.0	110	*	.3
-11/-13	*	*	*	*	.0	.0	.0	.0	37	*	.1
-14/-16	*	*	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL									36531		
PCT	*	.4	9.0	52.6	33.7	3.7	.5	.1	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	*	.0	.0	.0	.1
1-2	*	.3	.1	.0	.0	.0	.4
3-4	.0	.2	.2	*	.0	.0	.4
5-6	.0	*	.2	*	*	.0	.2
7	.0	*	.1	*	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.5	.1	*	.0	1.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	*	.0	.0	.0	.5
1-2	.1	3.4	1.1	.0	.0	.0	4.6
3-4	*	2.1	2.4	*	.0	.0	4.6
5-6	*	.4	1.6	.1	.0	.0	2.0
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	*	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.3	5.5	.2	.0	.0	12.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.1	.0	.0	.0	1.5
1-2	.3	11.8	2.9	.0	.0	.0	15.1
3-4	.1	8.0	7.3	.1	.0	.0	15.5
5-6	*	1.4	5.0	.2	.0	.0	6.6
7	.0	.2	1.5	.2	.0	.0	1.8
8-9	*	.1	.3	.1	*	.0	.4
10-11	.0	*	.1	*	.0	.0	.1
12	.0	*	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	22.6	17.2	.6	*	.0	41.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.1	.0	.0	.0	1.0
1-2	.3	9.0	2.6	.0	.0	.0	11.8
3-4	*	6.0	8.1	.2	.0	.0	14.3
5-6	*	1.4	6.1	.4	*	.0	8.0
7	.0	.2	1.9	.5	*	.0	2.7
8-9	*	*	.5	.3	.0	.0	.8
10-11	*	*	.1	.1	.0	.0	.2
12	.0	*	*	*	.0	.0	.1
13-16	.0	*	.0	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	17.4	19.4	1.6	*	.0	38.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0006 RECIFE 9.1S 34.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	*	.0	.0	.0	.2	.0	*	*	.0	.0	.0	*
1-2	.1	1.1	.4	.0	.0	.0	1.7	*	.1	*	.0	.0	.0	.2
3-4	*	.6	1.1	*	.0	.0	1.7	*	.1	.1	.0	.0	.0	.1
5-6	*	.2	.8	.1	.0	.0	1.1	.0	*	*	*	.0	.0	.1
7	.0	*	.3	.1	.0	.0	.4	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	*	*	.0	.0	.1	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	*	.0	.0	*	.0	.0	*	.0	.0	.0	*
13-16	.0	*	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	2.7	.3	.0	.0	5.3	*	.2	.1	*	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	*	*	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
1-2	*	*	*	.0	.0	.0	.1	*	*	.0	.0	.0	.0	*	
3-4	.0	*	*	.0	.0	.0	.1	.0	*	*	.0	.0	.0	*	
5-6	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0	*	
7	.0	.0	*	.0	.0	.0	*	.0	.0	*	*	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	*	.1	*	*	.0	.0	.2	*	.1	*	*	.0	.0	.2	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.7	.2	.0	.0	.0	4.3	
1-2	1.0	25.8	7.0	.0	.0	.0	33.8	
3-4	.2	16.9	19.1	.4	.0	.0	36.6	
5-6	.1	3.4	13.7	.8	*	.0	17.9	
7	*	.4	4.2	.8	*	.0	5.5	
8-9	*	.1	.9	.5	*	.0	1.5	
10-11	*	*	.2	.2	.0	.0	.4	
12	.0	*	*	.1	.0	.0	.1	
13-16	.0	*	.0	*	*	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								14116
TOT PCT	2.6	49.3	45.3	2.7	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	10.3	17.7	7.6	2.0	.6	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10832	3
6-7	.1	1.6	10.8	13.0	5.3	1.6	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	9131	5
8-9	*	.4	2.0	3.9	3.3	1.6	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	3290	6
10-11	.0	.3	.4	.7	.8	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	838	6
12-13	.0	.0	.6	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	5
>13	.0	.0	.0	.2	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	7
INDET	1.0	2.5	3.5	1.9	1.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2867	4
TOTAL																				27422	4
PCT	2.1	15.2	35.0	27.6	12.8	4.7	1.8	.6	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1974
(OVER-ALL) 1854-1974

AREA 0006 RECIFE
9.1S 34.1W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	11	*
89/90	*	.0	*	.1	*	.0	.0	.0	*	.0	*	*	23	*
87/88	.1	.1	.3	.4	.1	.1	*	*	.0	.1	*	*	141	.1
85/86	.9	2.1	3.2	2.9	1.2	.3	.1	*	.1	.2	.1	.2	1163	.9
83/84	7.2	14.4	24.6	23.9	11.2	3.4	.7	.3	.3	.6	1.1	2.5	9277	7.5
81/82	49.2	60.2	57.3	57.3	52.7	26.2	8.3	4.0	3.8	8.1	15.7	31.0	38562	31.3
79/80	37.4	20.9	12.9	13.2	30.0	49.4	35.7	22.1	26.4	41.9	55.2	54.7	41379	33.6
77/78	4.3	1.8	1.2	1.9	4.0	18.1	43.8	52.7	54.8	43.8	24.9	10.3	26379	21.4
75/76	.6	.2	.2	.3	.6	2.2	9.8	17.9	12.9	4.6	2.4	.9	5238	4.3
73/74	.1	.1	.2	*	.1	.4	1.3	2.5	1.5	.6	.3	.1	730	.6
71/72	.1	*	*	.0	*	.1	.2	.3	.2	.1	.1	*	121	.1
69/70	.1	*	*	.0	.0	.0	.1	*	.1	*	*	*	33	*
67/68	.0	.0	.0	.0	.0	*	*	*	*	*	.0	.0	15	*
65/66	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	*
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	9962	9760	10498	9982	11110	10919	10595	9920	9188	9999	10755	10385	123073	100.0
MEAN	80.7	81.3	81.8	81.8	80.9	79.7	78.3	77.6	77.8	78.5	79.2	80.0	79.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1013	1012	1012	1013	1014	1013	1012	1012	1012	8226
FEB	1013	1013	1011	1013	1013	1013	1011	1012	1012	6411
MAR	1013	1013	1011	1012	1013	1013	1011	1012	1012	6643
APR	1013	1013	1011	1013	1014	1013	1011	1013	1012	6288
MAY	1014	1014	1013	1014	1015	1014	1013	1014	1014	6810
JUN	1016	1016	1015	1016	1016	1016	1014	1015	1015	6312
JUL	1017	1017	1016	1017	1017	1017	1016	1017	1017	6098
AUG	1017	1017	1016	1017	1018	1017	1016	1017	1017	5754
SEP	1017	1016	1015	1016	1017	1016	1015	1016	1016	5684
OCT	1015	1015	1013	1015	1016	1015	1013	1014	1014	6077
NOV	1013	1013	1012	1014	1014	1014	1012	1013	1013	6183
DEC	1013	1013	1012	1013	1014	1013	1012	1012	1012	6038
ANN	1015	1014	1013	1014	1015	1015	1013	1014	1014	74524
OBS	9434	5247	13922	6548	9941	8321	14635	6476		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1006	1009	1011	1012	1014	1016	1018	1022
FEB	1000	1007	1009	1011	1012	1014	1016	1018	1022
MAR	1000	1006	1009	1011	1012	1013	1015	1017	1022
APR	1002	1007	1009	1011	1012	1014	1016	1018	1024
MAY	1003	1008	1010	1012	1014	1015	1017	1019	1025
JUN	1004	1010	1012	1014	1015	1017	1019	1021	1024
JUL	1006	1011	1013	1015	1017	1018	1020	1022	1026
AUG	1006	1010	1013	1015	1017	1018	1020	1022	1025
SEP	1006	1010	1012	1014	1016	1017	1019	1021	1024
OCT	1003	1008	1011	1013	1014	1016	1018	1020	1024
NOV	1003	1007	1009	1011	1013	1014	1016	1018	1023
DEC	1000	1007	1009	1011	1013	1014	1016	1017	1021

JANUARY

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1857-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.3	1.3	1.1	.0	.0	.0	.0	5.3	2.9	1.4	.0	.0	.3		.0	90.2
NE	.5	1.3	.1	.0	.0	.0	.0	1.9	1.6	1.1	.1	.0	.0		.0	95.3
E	.5	1.5	.1	.0	.0	.0	.0	2.1	3.6	.7	.0	.0	.1		.0	93.6
SE	.7	2.5	.4	.0	.0	.0	.0	3.6	2.9	.6	.0	.0	.2		.0	92.8
S	3.5	4.8	.0	.0	.0	.0	.0	8.4	.0	.0	.0	.0	.0		.0	91.6
SW	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0		.0	93.8
W	5.7	.0	5.7	.0	.0	.0	.0	11.3	.0	7.5	.0	.0	.0		.0	81.1
NW	6.0	.0	2.6	.0	.0	.0	.0	7.8	2.6	.0	.0	.0	4.3		.0	85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	3.8	.0	.0	.0	.0	.0	3.8	3.8	.0	.0	.0	.0		.0	92.3
TOT PCT	.9	1.6	.2	.0	.0	.0	.0	2.7	2.7	.8	*	.0	.2		.0	93.5
TOT OBS:	3239															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00603	.6	1.0	.0	.0	.0	.0	.0	1.6	2.7	1.2	.1	.0	.4		.0	93.9
06609	.4	1.8	.3	.0	.0	.0	.0	2.4	3.1	1.8	.0	.0	.0		.0	92.7
12615	1.3	1.7	.3	.0	.0	.0	.0	3.3	3.1	.1	.0	.0	.3		.0	93.1
18621	1.2	1.8	.4	.0	.0	.0	.0	3.2	2.1	.2	.0	.0	.0		.0	94.4
TOT PCT	.9	1.6	.2	.0	.0	.0	.0	2.7	2.8	.8	*	.0	.2		.0	93.5
TOT OBS:	3291															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	3.7	2.6	.2	.0	.0		6.9	10.4	6.8	3.6	5.9	5.6	10.0	7.4	9.0	5.9
NE	.7	18.3	9.9	.2	.0	.0		29.1	9.8	30.9	29.4	28.4	28.6	31.4	29.0	29.3	26.2
E	1.7	28.0	12.3	.2	*	.0		42.2	9.3	41.3	43.4	43.3	44.4	38.6	41.5	41.3	44.5
SE	1.0	12.1	5.1	.1	*	.0		18.4	9.1	16.2	21.1	20.2	18.7	15.0	18.3	16.5	20.9
S	.2	.8	.4	*	.0	.0		1.4	8.7	2.7	1.5	.9	1.1	1.6	1.5	1.2	1.2
SW	.1	.3	.1	*	.0	.0		.4	7.7	.5	.3	.3	.3	.7	.6	.5	.1
W	.1	.1	*	.0	.0	.0		.3	6.0	.2	.2	.2	.2	.6	.4	.3	.1
NW	.1	.4	.2	*	.0	.0		.6	9.4	.5	.0	.5	.7	1.1	.9	.9	.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.9	.4	.4	.4	1.0	.4	1.1	.4
TOT OBS	448	5937	2856	75	1	0	9317		9.4	976	1020	1696	838	939	1264	1693	891
TOT PCT	4.8	63.7	30.7	.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	4.6	.8	.0	.0		6.9	10.4	5.2	5.8	8.5	8.0
NE	6.4	20.8	1.9	*	.0		29.1	9.8	30.2	28.5	30.0	28.2
E	11.3	28.3	2.6	.1	.0		42.2	9.3	42.4	43.7	40.3	42.4
SE	5.7	11.4	1.2	*	.0		18.4	9.1	18.7	19.7	16.9	18.0
S	.5	.8	.1	.0	.0		1.4	8.7	2.1	.9	1.5	1.2
SW	.2	.2	*	*	.0		.4	7.7	.4	.3	.6	.4
W	.2	.1	*	.0	.0		.3	6.0	.2	.2	.5	.2
NW	.2	.3	.1	.0	.0		.6	9.4	.2	.6	1.0	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.7	.4	.6	.9
TOT OBS	2483	6197	628	9	0	9317		9.4	1996	2534	2203	2584
TOT PCT	26.7	66.5	6.7	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	3.6	65.7	29.3	.8	.0	.0	9.4	100.0	1996
06&09	.4	2.8	63.6	32.2	1.0	*	.0	9.6	100.0	2534
12&15	.6	5.1	60.6	32.6	1.0	.0	.0	9.6	100.0	2203
18&21	.9	5.1	65.1	28.5	.4	.0	.0	9.1	100.0	2584
TOT	58	390	5937	2856	75	1	0	9.4		9317
PCT	.6	4.2	63.7	30.7	.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	2.0	2.4	1.1		4.5
NE	12.4	9.7	8.1	1.6		3.4
E	16.9	14.0	10.0	2.2		3.4
SE	5.7	4.5	3.1	.4		3.2
S	.4	.3	.4	.3		4.3
SW	.1	.2	.1	.1		4.1
W	.0	.1	.1	.1		5.7
NW	*	.1	.4	.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.2	*		3.1
TOT OBS	972	797	634	159	2562	3.5
TOT PCT	37.9	31.1	24.7	6.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.5	.5	.5	.2	*	.0	.0	5.5	
NE	*	.0	.3	.9	1.6	.7	.6	*	.1	*	27.6	
E	.1	.0	.1	.7	2.8	1.3	.7	.2	.0	.1	37.2	
SE	.0	.0	.1	.4	.4	.6	.2	*	.0	.0	12.0	
S	*	.0	.0	.1	.1	.2	*	.0	.0	.0	1.0	
SW	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.3	
W	.0	.0	.0	.0	.1	.1	.0	*	.0	.0	.2	
NW	.0	.0	.0	.1	.3	*	*	.0	*	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.7	
TOT OBS	4	0	15	70	149	89	45	8	4	2	2176	2562
TOT PCT	.2	.0	.6	2.7	5.8	3.5	1.8	.3	.2	.1	84.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	1.9	2.2	2.2	2.3	2.3	2.3	2.3	2.3
* OR >2000	4.5	5.5	5.6	5.7	5.7	5.7	5.7	5.7
* OR >1000	9.2	11.0	11.2	11.4	11.4	11.4	11.4	11.4
* OR >600	11.5	13.7	13.9	14.1	14.1	14.1	14.1	14.1
* OR >300	11.9	14.2	14.5	14.6	14.7	14.7	14.7	14.7
* OR >150	11.9	14.2	14.5	14.6	14.7	14.7	14.7	14.7
* OR > 0	11.9	14.3	14.6	14.8	14.8	14.8	14.8	14.8
TOTAL	308	370	378	382	383	383	383	383

TOTAL NUMBER OF OBS: 2586

PCT FREQ NH <5/8: 85.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.6	19.4	27.0	20.0	11.4	4.2	4.4	2.8	3.1	.1	2760

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	*	.0	.0	*	*	*	.0	.0	.0	.1	
1<2	NO PCP	*	.1	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	.0	.0	.1	*	*	.0	.0	.0	.2	
	PCP	.1	*	*	.0	.0	.0	.0	*	.0	.0	.2	
2<5	NO PCP	.3	.5	.6	.1	.1	.1	.1	*	.0	.0	1.9	
	TOT %	.4	.6	.6	.1	.1	.1	.1	.1	.0	.0	2.1	
	PCP	.1	.3	.3	.2	*	.0	.0	*	.0	*	1.0	
5<10	NO PCP	.8	2.8	3.7	2.6	.3	.2	.2	.2	.0	*	10.8	
	TOT %	.9	3.1	4.1	2.7	.4	.2	.2	.2	.0	.1	11.8	
	PCP	.1	.2	.5	.4	.1	*	*	*	.0	.0	1.3	
10+	NO PCP	5.7	26.5	37.1	12.2	1.1	.3	.1	.6	.0	.7	84.5	
	TOT %	5.9	26.7	37.6	12.6	1.2	.3	.2	.6	.0	.7	85.8	
	TOT OBS												3228
	TOT PCT	7.3	30.6	42.3	15.4	1.7	.6	.4	.9	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1<2	4-10	.1	.1	*	*	*	.0	.0	.0	.0		.2	
	11-21	*	*	.0	*	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	*	.1	*	*	.0	.0	.0	.3	
	0-3	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.1	.3	.1	.1	.1	*	*	.0		.8	
	11-21	.1	.3	.2	*	.0	*	.0	*	.0		.6	
	22+	*	*	.0	.0	*	.0	.0	*	.0		.1	
	TOT %	.2	.4	.5	.2	.1	.1	*	*	.0	.0	1.5	
	0-3	*	.1	.1	.2	.1	.1	*	*	.0	.1	.6	
5<10	4-10	.4	1.4	1.8	1.2	.2	*	.1	.2	.0		5.1	
	11-21	.4	.9	1.4	.7	.1	*	*	*	.0		3.5	
	22+	.1	*	*	*	.0	.0	.0	*	.0		.1	
	TOT %	.9	2.3	3.3	2.0	.3	.1	.1	.2	.0	.1	9.3	
	0-3	.4	.7	1.4	.8	.1	*	.1	*	.0	.6	4.1	
10+	4-10	4.0	17.0	26.6	10.3	.7	.3	.1	.3	.0		59.2	
	11-21	2.7	9.2	9.5	3.1	.3	*	.0	.3	.0		25.1	
	22+	.1	.1	*	*	.0	.0	.0	.0	.0		.3	
	TOT %	7.1	26.9	37.6	14.2	1.1	.3	.2	.7	.0	.6	88.8	
	TOT OBS												5584
	TOT PCT	8.3	29.8	41.5	16.4	1.6	.5	.4	.9	.0	.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.4	2.1	4.7	2.7	.6	.0	.0	.3	10.8	89.2	676
06&09	.0	.0	.8	1.9	5.6	1.9	2.2	.3	.2	.0	12.7	87.3	645
12&15	.0	.0	.6	3.1	7.7	4.6	1.9	.4	.0	.0	18.2	81.8	702
18&21	.6	.0	.4	3.1	3.9	3.7	1.9	.4	.4	.0	14.4	85.6	721
TOT	4	0	15	70	150	89	45	8	4	2	387	2357	2744
PCT	.1	.0	.5	2.6	5.5	3.2	1.6	.3	.1	.1	14.1	85.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.1	.4	1.7	9.1	88.6	1320
06&09	.1	.0	.5	1.7	10.2	87.5	1442
12&15	.1	.1	.4	1.2	9.2	89.2	1365
18&21	.0	.0	.2	1.3	9.1	89.3	1510
TOT	4	2	20	84	530	4997	5637
PCT	.1	*	.4	1.5	9.4	88.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.6	4.2	8.8	86.9	636
06&09	.0	.8	5.4	10.4	84.2	594
12&15	.0	.6	5.5	14.6	79.8	669
18&21	.6	1.0	5.5	10.0	84.4	687
TOT	4	20	134	285	2167	2586
PCT	.2	.8	5.2	11.0	83.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.3	.0	*	*	15	.6
85/89	.0	.0	*	.5	3.0	2.0	1.0	.3	181	6.9
80/84	.0	.0	.0	.2	10.6	36.6	14.3	3.5	1719	65.3
75/79	.0	.0	.0	.0	.6	12.3	10.7	3.6	716	27.2
70/74	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	1	25	381	1342	684	201	2634	100.0
PCT	.0	.0	*	.9	14.5	50.9	26.0	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.2	.1	.0	.0	.0	.0	.0	*
.7	2.4	2.2	1.0	.2	.1	*	*	.0	.1
4.7	20.5	28.6	8.9	.9	.3	.1	.6	.0	.5
1.4	7.3	12.2	5.2	.5	.1	*	.3	.0	.1
.0	.0	*	.1	.0	.0	.0	.0	.0	.0
6.9	30.4	43.3	15.4	1.6	.5	.2	.9	.0	.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	83	82	80	77	75	70	79.8	2002
06&09	90	84	82	79	77	75	68	79.6	2519
12&15	95	90	86	82	78	75	72	81.9	2124
18&21	96	90	86	81	78	75	68	81.6	2507
TOT	96	88	85	80	77	75	68	80.7	9152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	5.1	56.0	31.6	7.0	79	673
06&09	.0	.0	4.6	52.0	34.1	9.3	80	633
12&15	.0	.8	20.9	48.7	21.8	7.7	76	716
18&21	.0	2.9	26.8	47.1	16.7	6.4	74	652
TOT	0	27	388	1362	694	203	77	2674

PERIOD: (PRIMARY) 1914-1974
(OVER-ALL) 1857-1974

AREA 0007 SALVADOR
14.0S 36.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	*	.1	*	4	.0	.1
9/10	.0	.0	.0	.0	*	*	.3	.0	10	.0	.4
7/8	.0	.0	.0	*	*	.6	.5	.0	33	.0	1.2
6	.0	.0	.0	.1	.1	.6	.1	*	28	.0	1.0
5	.0	.0	.0	*	.3	.8	.1	.0	34	.0	1.2
4	.0	.0	.0	.1	1.0	1.3	.0	.0	65	.0	2.3
3	.0	.0	.0	.1	2.3	1.5	.0	.0	109	.0	3.9
2	.0	.0	.0	.6	5.5	1.0	.0	.0	197	.0	7.1
1	.0	.0	*	1.9	8.9	.3	.0	.0	311	.0	11.2
0	.0	.0	*	6.9	11.9	.1	.0	.0	523	*	18.8
-1	.0	.0	*	10.8	8.1	.1	.0	.0	526	.0	19.0
-2	.0	.0	.2	13.2	3.2	.0	.0	.0	459	.0	16.5
-3	.0	.0	.1	6.7	1.1	.0	.0	.0	220	.0	7.9
-4	.0	.0	.3	4.6	.5	.0	.0	.0	149	.0	5.4
-5	.0	.0	.3	1.7	*	.0	.0	.0	55	.0	2.0
-6	.0	.0	.5	.6	.1	.0	.0	.0	32	.0	1.2
-7/-8	.0	.0	.3	.1	*	.0	.0	.0	14	.0	.5
-9/-10	.0	*	.1	.0	.0	.0	.0	.0	3	.0	.1
-11/-13	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	2	52	1316	1197	172	32	3	2775	1	2774
PCT	*	.1	1.9	47.4	43.1	6.2	1.2	.1	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.1	.0	.0	.0	.5
1-2	.1	2.3	1.1	.0	.0	.0	3.5
3-4	.0	.9	.9	.0	.0	.0	1.7
5-6	.0	.2	.8	.1	.0	.0	1.0
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	3.1	.2	.0	.0	7.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	*	.0	.0	.0	1.8
1-2	*	10.2	3.6	.0	.0	.0	13.8
3-4	*	5.4	5.2	.0	.0	.0	10.6
5-6	.0	.6	3.5	.1	.0	.0	4.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	17.7	12.5	.1	.0	.0	30.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	.0	.0	.0	.0	1.9
1-2	.9	17.0	3.9	.0	.0	.0	21.8
3-4	.2	10.2	6.6	.1	.0	.0	17.0
5-6	.0	2.1	2.9	.0	.0	.0	5.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	31.0	13.8	.1	.0	.0	46.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.8	3.7	1.3	.0	.0	.0	5.8
3-4	.0	3.5	1.6	*	.0	.0	5.1
5-6	.0	.2	.5	.0	.0	.0	.8
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.6	3.8	*	.0	.0	12.5

JANUARY

PERIOD: (OVER-ALL) 1963-1974 AREA 0007 SALVADOR

TABLE 18 (CONT) 14.0S 36.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.3	.0	.0	.0	.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.0	.0	.0	.0	.0	*
1-2	.0	*	.1	.0	.0	.0	.1
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.2	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.1	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.1	.0	.0	.0	.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	*	.0	.0	.0	.0	.1	
1-2	*	.2	*	.0	.0	.0	.3	
3-4	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.4	.2	.0	.0	.0	.7	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.6	.2	.0	.0	.0	6.4	
1-2	2.2	34.0	10.1	.0	.0	.0	46.3	
3-4	.2	20.1	14.6	.1	.0	.0	35.0	
5-6	.0	3.0	7.8	.2	.0	.0	11.0	
7	.0	.0	1.1	.1	.0	.0	1.2	
8-9	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	60.8	33.8	.4	.0	.0	100.0	1097

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	18.5	22.9	6.9	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1130	3
6-7	*	1.9	11.2	8.4	1.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	521	4
8-9	*	.8	1.7	1.8	1.0	.6	.7	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	5
10-11	.0	.6	.7	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
12-13	.0	.0	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	2.2	4.8	5.3	2.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	317	3
TOTAL	111	577	911	429	90	29	20	1	0	0	0	0	0	0	0	0	0	0	0	2168	3
PCT	5.1	26.6	42.0	19.8	4.2	1.3	.9	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	2.4	.0	.0	.0	.0	.0	5.1	2.7	4.9	.0	.0	.3	.0	87.0
NE	.5	2.3	.1	.0	.0	.0	.0	2.9	2.2	1.2	.0	.0	.2	.0	93.6
E	.4	2.3	.2	.0	.0	.0	.0	2.8	3.0	.9	.2	.0	.1	.0	93.0
SE	.3	3.8	.2	.0	.0	.0	.0	4.2	3.6	.6	.0	.0	.6	.0	91.0
S	1.8	.9	1.2	.0	.0	.0	.0	3.8	3.5	.9	1.2	.0	.0	.0	90.6
SW	9.8	8.2	.0	.0	.0	.0	.0	18.0	.0	.0	.0	.0	.0	.0	82.0
W	11.3	7.5	.0	.0	.0	.0	.0	18.9	7.5	.0	.0	.0	.0	.0	73.6
NW	8.5	7.7	.0	.0	.0	.0	.0	16.2	6.8	.0	.0	.0	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.5
TOT PCT	.7	2.6	.2	.0	.0	.0	.0	3.5	2.8	1.3	.1	.0	.2	.0	92.1
TOT OBS:	3338														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	1.6	.0	.0	.0	.0	.0	1.9	2.3	3.2	.0	.0	.2	.0	92.3
06&09	.8	3.6	.2	.0	.0	.0	.0	4.7	4.3	2.0	.4	.0	.4	.0	88.3
12&15	.7	2.7	.2	.0	.0	.0	.0	3.6	2.8	.1	.1	.0	.2	.0	93.2
18&21	1.5	2.7	.4	.0	.0	.0	.0	4.5	2.0	.1	.0	.0	.0	.0	93.4
TOT PCT	.8	2.7	.2	.0	.0	.0	.0	3.7	2.9	1.3	.1	.0	.2	.0	91.8
TOT OBS:	3383														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.2	2.3	.1	.0	.0		5.9	10.2	5.8	3.6	5.1	4.7	9.7	6.2	7.4	4.2
NE	1.2	16.6	8.0	.2	.0	.0		26.0	9.4	28.2	23.1	25.5	24.3	31.3	25.3	26.4	23.8
E	1.9	29.7	10.9	.3	.0	.0		42.8	9.1	41.9	44.8	44.9	44.7	39.0	41.4	41.5	44.1
SE	.9	14.5	5.3	.2	.0	.0		21.0	9.1	18.6	26.0	21.0	23.7	14.9	21.8	19.1	24.6
S	.3	1.4	.3	.0	.0	.0		2.0	7.3	3.0	1.3	2.0	1.2	1.9	1.8	2.4	1.6
SW	.1	.3	.1	.0	.0	.0		.4	6.8	.2	.1	.2	.1	.7	.7	.7	.4
W	.1	.2	.1	*	.0	.0		.3	7.6	.5	.4	.1	.2	.6	.6	.2	.2
NW	.1	.4	.2	*	.0	.0		.7	8.6	.4	.3	.5	.8	.9	1.2	1.3	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.5	.6	.7	.2	.9	.8	1.0	.7
TOT OBS	531	6173	2539	83	0	0	9326		9.1	1011	999	1743	864	969	1185	1717	838
TOT PCT	5.7	66.2	27.2	.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	3.7	.6	*	.0		5.9	10.2	4.7	5.0	7.8	6.3
NE	6.9	17.4	1.6	*	.0		26.0	9.4	25.6	25.1	28.0	25.6
E	11.9	28.7	2.1	*	.0		42.8	9.1	43.3	44.8	40.3	42.4
SE	6.1	13.7	1.2	*	.0		21.0	9.1	22.3	21.9	18.7	20.9
S	1.0	.9	*	.0	.0		2.0	7.3	2.1	1.7	1.8	2.2
SW	.2	.2	*	.0	.0		.4	6.8	.1	.2	.7	.6
W	.2	.1	*	.0	.0		.3	7.6	.4	.1	.6	.2
NW	.4	.3	.1	.0	.0		.7	8.6	.4	.6	1.1	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.0	.6	.9	.9
TOT OBS	2713	6065	536	12	0	9326		9.1	2010	2607	2154	2555
TOT PCT	29.1	65.0	5.7	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	4.5	68.6	25.0	.9	.0	.0	9.0	100.0	2010
06&09	.6	3.5	65.5	29.5	1.0	.0	.0	9.4	100.0	2607
12&15	.9	6.2	63.8	28.1	1.1	.0	.0	9.1	100.0	2154
18&21	.9	5.4	67.0	26.0	.7	.0	.0	8.9	100.0	2555
TOT	79	452	6173	2539	83	0	0	9.1		9326
PCT	.8	4.8	66.2	27.2	.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	2.2	1.7	1.2		3.9
NE	12.9	9.4	6.9	.9		3.1
E	15.8	13.4	11.9	1.4		3.5
SE	6.2	4.6	3.3	.9		3.3
S	.8	.8	.6	.3		3.8
SW	*	*	.2	.1		5.4
W	.1	.0	.1	.1		5.7
NW	*	.1	.4	.3		6.4
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.2	*		3.5
TOT OBS	1023	808	666	136	2633	3.4
TOT PCT	38.9	30.7	25.3	5.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.0	.6	.2	.4	.2	*	.1	*	6.2	
NE	.0	*	.1	.8	1.3	.8	.6	.1	.1	.0	26.5	
E	*	.0	.1	1.2	1.9	1.3	.6	.1	.1	.0	37.1	
SE	*	.0	.1	.5	.7	.3	.2	*	*	.0	13.1	
S	.0	.0	.0	*	.4	.1	.1	*	.0	.0	1.8	
SW	.0	.0	.0	*	.1	.0	*	.0	.0	.0	.2	
W	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.1	.1	.2	.0	.0	*	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.6	
TOT OBS	1	2	8	87	126	81	44	8	6	1	2269	2633
TOT PCT	*	.1	.3	3.3	4.8	3.1	1.7	.3	.2	*	86.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	4.6	5.3	5.4	5.4	5.4	5.4	5.4	5.4
* OR >1000	8.8	10.2	10.3	10.3	10.3	10.3	10.3	10.3
* OR >600	11.3	13.3	13.6	13.6	13.7	13.7	13.7	13.7
* OR >300	11.4	13.5	13.9	14.0	14.0	14.0	14.0	14.0
* OR >150	11.4	13.6	14.0	14.1	14.1	14.1	14.1	14.1
* OR > 0	11.4	13.6	14.0	14.1	14.2	14.2	14.2	14.2
TOTAL	304	362	373	375	376	376	376	376

TOTAL NUMBER OF OBS: 2657

PCT FREQ NH <5/8: 85.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.8	20.4	28.9	20.7	10.4	5.1	3.6	2.1	3.0 *	2792

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	PCP	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	.1	*	.1	.1	.0	*	.0	*	.0	.0	.3	
2<5	NO PCP	*	.1	.3	.2	.0	.0	.0	.0	.0	.1	.6	
	TOT %	.1	.1	.3	.2	.0	*	.0	*	.0	.1	.9	
	PCP	.1	.3	.3	.2	*	*	.1	.1	.0	.0	1.1	
5<10	NO PCP	.6	2.7	4.1	1.9	.2	.1	.1	.1	.0	.1	9.9	
	TOT %	.7	3.0	4.5	2.1	.2	.1	.2	.2	.0	.1	11.0	
	PCP	.1	.6	.8	.4	.1	*	*	.1	.0	.0	2.0	
10+	NO PCP	6.3	25.9	36.9	12.9	2.2	.3	.2	.6	.0	.6	85.9	
	TOT %	6.4	26.4	37.7	13.3	2.3	.3	.2	.7	.0	.6	87.9	
	TOT OBS												3333
	TOT PCT	7.2	29.5	42.5	15.8	2.5	.5	.4	.9	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	*	.1	.1	*	.0	.0	.0	*	.0	.0	.2	
	0-3	.0	*	*	.1	.0	*	.0	.0	.0	*	.2	
2<5	4-10	*	.1	.2	.2	*	.0	.0	*	.0		.5	
	11-21	.1	*	.1	*	.0	.0	.0	*	.0		.3	
	22+	*	.0	*	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	.4	.2	*	*	.0	*	.0	*	1.0	
	0-3	.0	.1	.2	.2	*	*	*	*	.0	*	.6	
5<10	4-10	.3	1.3	2.1	1.0	.2	.1	.1	.1	.0		5.1	
	11-21	.4	1.1	1.1	.5	*	*	*	.1	.0		3.3	
	22+	.1	*	*	*	.0	.0	.0	*	.0		.1	
	TOT %	.7	2.4	3.4	1.7	.2	.1	.2	.2	.0	*	9.1	
	0-3	.4	1.2	1.6	.6	.2	.1	.1	.1	.0	.7	4.9	
10+	4-10	3.4	16.0	28.7	12.2	1.3	.3	.2	.5	.0		62.4	
	11-21	2.4	7.6	8.6	3.0	.3	*	*	.1	.0		22.0	
	22+	.1	.1	.1	*	.0	.0	.0	.0	.0		.3	
	TOT %	6.3	24.8	39.0	15.8	1.8	.4	.2	.7	.0	.7	89.7	
	TOT OBS												5810
	TOT PCT	7.2	27.4	42.9	17.8	2.1	.5	.4	1.0	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.3	2.5	4.0	2.3	1.3	.0	.1	.0	10.6	89.4	681
06&09	.0	.0	.4	2.9	4.0	2.9	1.5	.1	.1	.0	12.0	88.0	682
12&15	.0	.1	.1	4.3	5.2	3.0	1.7	.4	.6	.1	15.7	84.3	696
18&21	.1	.1	.6	3.0	5.5	3.7	1.9	.6	.0	.0	15.7	84.3	722
TOT	1	2	10	89	130	84	45	8	6	1	376	2405	2781
PCT	*	.1	.4	3.2	4.7	3.0	1.6	.3	.2	*	13.5	86.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.3	.8	9.1	89.6	1373
06&09	.0	.0	.1	1.5	9.7	88.7	1551
12&15	.0	.1	.1	1.0	8.4	90.4	1417
18&21	.1	.0	.3	.8	9.4	89.5	1518
TOT	2	3	11	61	538	5244	5859
PCT	*	.1	.2	1.0	9.2	89.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.6	3.1	8.2	88.7	645
06&09	.0	.5	4.3	9.0	86.7	646
12&15	.0	.4	5.0	11.2	83.7	676
18&21	.1	.9	4.3	12.2	83.5	690
TOT	1	16	112	271	2274	2657
PCT	*	.6	4.2	10.2	85.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.3	.2	.1	.0	.1	20	.7
85/89	.0	.0	*	.4	4.0	2.6	.8	.3	226	8.2
80/84	.0	.0	.0	.4	11.2	43.4	16.6	3.9	2076	75.6
75/79	.0	.0	.0	.0	.1	6.3	6.5	2.4	418	15.2
70/74	.0	.0	.0	.0	.0	.0	*	.2	7	.3
TOTAL	0	0	3	30	426	1438	660	190	2747	100.0
PCT	.0	.0	.1	1.1	15.5	52.3	24.0	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	.2	.1	.0	.0	.0	*	.0	.0
.8	3.0	2.9	1.1	.1	.1	*	.1	.0	*
5.4	22.1	32.9	12.3	1.4	.2	.2	.5	.0	.4
1.0	3.5	6.1	3.0	.9	.1	.1	.4	.0	.2
.0	.0	.1	.1	*	*	.0	.0	.0	*
7.2	29.0	42.3	16.6	2.4	.4	.4	1.0	.0	.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	84	82	80	78	76	72	80.3	1991
06&09	94	84	83	80	77	75	71	80.1	2556
12&15	94	90	87	82	79	76	72	82.3	2081
18&21	94	90	86	82	79	76	72	82.0	2452
TOT	94	88	86	81	78	76	71	81.2	9080

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	5.1	56.6	30.4	7.7	79	685
06&09	.0	.1	4.7	55.3	29.9	10.0	79	683
12&15	.0	1.8	22.9	49.5	20.0	5.9	75	734
18&21	.0	2.8	28.4	46.7	17.5	4.7	74	687
TOT	0	34	430	1450	679	196	77	2789

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0007 SALVADOR
14.0S 36.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	.0	*	.1	5	.0	.2
9/10	.0	.0	.0	*	.1	.1	.0	7	.0	.2
7/8	.0	.0	.0	.1	.2	.1	*	14	.0	.5
6	.0	.0	*	.1	.3	.3	.0	22	.0	.8
5	.0	.0	*	.4	.9	*	.0	40	.0	1.4
4	.0	.0	.1	.7	1.3	*	.0	62	.0	2.1
3	.0	.0	.1	1.2	2.0	*	.0	94	.0	3.3
2	.0	.0	.1	4.2	1.7	.0	.0	173	.0	6.0
1	.0	.0	1.0	8.1	.7	.0	.0	281	.0	9.7
0	.0	.1	3.3	15.2	.6	.0	.0	553	.0	19.1
-1	.0	*	6.4	13.5	.1	.0	.0	579	.1	20.0
-2	.0	.1	8.7	7.0	.0	.0	.0	456	*	15.7
-3	.0	.1	6.5	3.5	*	.0	.0	290	.0	10.0
-4	.0	.1	3.8	1.5	.0	.0	.0	157	.0	5.4
-5	.0	.1	2.4	.6	.0	.0	.0	90	.0	3.1
-6	.0	.2	1.1	*	.0	.0	.0	38	.0	1.3
-7/-8	.0	.4	.4	*	.0	.0	.0	25	.0	.9
-9/-10	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	33	983	1618	229	21	4	2889	3	2886
PCT	*	1.1	34.0	56.0	7.9	.7	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	2.8	.5	.0	.0	.0	3.4
3-4	.0	1.3	3.0	.4	.0	.0	4.7
5-6	.0	.2	1.6	.0	.0	.0	1.8
7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.7	5.8	.7	.0	.0	11.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.1
1-2	.1	9.7	2.4	.0	.0	.0	12.2
3-4	.0	6.2	6.6	.0	.0	.0	12.8
5-6	.0	1.0	2.7	.0	.0	.0	3.8
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	18.0	11.9	.2	.0	.0	30.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.4	.0	.0	.0	2.3
1-2	.4	14.2	3.5	.0	.0	.0	18.1
3-4	.1	8.3	6.7	.0	.0	.0	15.0
5-6	.0	1.5	3.1	.0	.0	.0	4.6
7	.0	.1	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	25.5	14.0	.0	.0	.0	40.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2
1-2	.2	5.8	.5	.0	.0	.0	6.5
3-4	.0	4.0	1.4	.0	.0	.0	5.4
5-6	.0	.9	.5	.1	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.9	2.5	.1	.0	.0	13.8

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0007 SALVADOR
14.0S 36.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.2	.7	.0	.0	.0	.0	.8
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	.3	.0	.0	.0	1.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	*	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.6	.0	.0	.0	.0	.6	
3-4	.1	.1	*	.0	.0	.0	.3	
5-6	.0	.0	.2	.1	.0	.0	.3	
7	.0	.0	.2	*	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.0	.0	.0	.0	.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	2.9	.5	.0	.0	.0	5.6	
1-2	1.2	33.8	6.9	.0	.0	.0	41.9	
3-4	.3	20.1	17.6	.4	.0	.0	38.4	
5-6	.0	3.6	8.0	.2	.0	.0	11.8	
7	.0	.2	1.4	.5	.0	.0	2.1	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.1	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	60.7	34.5	1.1	.0	.0	100.0	1105

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	16.7	22.3	6.3	.6	.4	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1049	3
6-7	.2	2.3	11.6	8.8	3.1	.4	.3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	582	4
8-9	.0	.6	2.5	2.7	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	5
10-11	.0	1.1	1.1	.2	.4	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	4
12-13	.0	.0	1.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	4
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
INDET	2.1	4.3	3.8	1.0	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	258	3
TOTAL	88	543	927	438	133	34	9	0	2	0	1	0	0	0	0	0	0	0	0	2175	3
PCT	4.0	25.0	42.6	20.1	6.1	1.6	.4	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

AREA 0007 SALVADOR
14.15 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	3.7	.7	.0	.0	.0	.0	.0	4.4	3.7	1.2	.0	.0	.0		.0	90.7
NE	1.4	2.6	.3	.0	.0	.0	.0	4.3	2.7	.7	.5	.0	.0		.0	92.0
E	1.0	2.4	.3	.0	.0	.0	.0	3.6	2.9	.9	.4	.0	.0		.0	92.2
SE	.9	3.1	.8	.0	.0	.0	.0	4.7	4.5	.6	.1	.0	.1		.1	90.0
S	.7	5.9	.0	.0	.0	.0	.0	6.6	6.4	.9	.0	.0	.9		.0	85.3
SW	2.2	6.5	.0	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0		.0	91.3
W	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
NW	7.1	1.8	.0	.0	.0	.0	.0	8.9	7.1	.0	.0	.0	.0		.0	83.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	4.0	.0	.0	.0	.0	.0	4.0	8.0	4.0	.0	.0	.0		.0	84.0
TOT PCT	1.2	2.7	.4	.0	.0	.0	.0	4.2	3.4	.8	.3	.0	.1		*	91.2
TOT OBS:	3209															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	1.1	2.9	.5	.0	.0	.0	.0	4.6	3.2	1.3	.1	.0	.0		.0	91.0
06&09	1.1	3.0	.1	.0	.0	.0	.0	4.2	5.0	1.7	.2	.0	.0		.1	88.8
12&15	1.4	2.7	.4	.0	.0	.0	.0	4.4	2.6	.2	.2	.0	.1		.0	92.5
18&21	1.1	2.2	.5	.0	.0	.0	.0	3.8	2.7	.0	.6	.0	.1		.0	92.7
TOT PCT	1.2	2.7	.4	.0	.0	.0	.0	4.2	3.3	.8	.3	.0	.1		*	91.3
TOT OBS:	3294															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	2.5	1.5	.1	.0	.0		4.5	9.5	4.8	3.0	2.9	3.6	5.4	6.3	5.8	3.5
NE	1.4	14.4	4.9	.2	.0	.0		21.0	8.7	19.9	18.2	21.4	21.1	24.5	21.4	21.7	18.5
E	2.1	28.7	10.3	.2	*	.0		41.4	8.8	43.9	41.5	41.8	41.8	41.3	38.5	40.5	40.4
SE	1.6	18.7	6.9	.2	*	.0		27.5	8.9	24.4	33.0	29.1	30.5	21.6	26.1	25.0	32.2
S	.3	1.9	.7	*	.0	.0		2.9	8.7	3.6	2.8	2.9	1.5	3.5	2.8	3.2	2.8
SW	.1	.4	.1	*	.0	.0		.6	7.9	.3	.5	.6	.2	.9	1.0	.6	.4
W	.1	.2	*	*	.0	.0		.3	7.5	*	.0	.2	.1	1.0	1.1	.3	.0
NW	.1	.4	.1	*	.0	.0		.6	7.6	.2	.1	.4	.4	1.2	1.2	.7	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	1.0	.9	.7	.7	.6	1.7	2.2	1.9
TOT OBS	709	6462	2362	78	2	0	9613		8.7	1049	1084	1819	824	1043	1252	1733	809
TOT PCT	7.4	67.2	24.6	.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	2.5	.4	*	.0		4.5	9.5	3.8	3.1	5.9	5.1
NE	7.3	12.7	.9	.1	.0		21.0	8.7	19.0	21.3	22.8	20.7
E	13.2	26.4	1.7	*	.0		41.4	8.8	43.6	41.8	39.7	40.5
SE	8.6	17.4	1.5	*	.0		27.5	8.9	28.8	29.5	24.0	27.3
S	1.1	1.6	.2	.0	.0		2.9	8.7	3.2	2.4	3.1	3.1
SW	.3	.2	.1	.0	.0		.6	7.9	.4	.5	1.0	.6
W	.2	.1	*	.0	.0		.3	7.5	*	.2	1.0	.2
NW	.3	.2	*	*	.0		.6	7.6	.2	.4	1.2	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.0	.7	1.2	2.1
TOT OBS	3243	5884	474	12	0	9613		8.7	2133	2643	2295	2542
TOT PCT	33.7	61.2	4.9	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	5.1	68.9	24.4	.7	.0	.0	8.7	100.0	2133
06&09	.7	5.0	66.5	26.6	1.2	.0	.0	9.0	100.0	2643
12&15	1.2	6.8	64.6	26.7	.7	*	.0	8.8	100.0	2295
18&21	2.1	7.6	68.9	20.7	.7	*	.0	8.3	100.0	2542
TOT	120	589	6462	2362	78	2	0	8.7		9613
PCT	1.2	6.1	67.2	24.6	.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.2	1.5	.7		4.1
NE	7.8	7.2	6.2	1.5		3.7
E	14.1	14.8	14.2	2.9		3.8
SE	6.6	7.1	6.5	1.4		3.8
S	.9	.9	1.0	.6		4.4
SW	*	.1	.1	*		4.7
W	*	*	.2	.1		5.9
NW	*	.1	.1	.1		5.6
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.2	.0		3.0
TOT OBS	830	839	794	192	2655	3.8
TOT PCT	31.3	31.6	29.9	7.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.3	.3	.2	.1	*	.0	*	3.7	
NE	*	*	.1	.8	1.3	1.1	.6	.1	.0	.1	18.5	
E	.1	.0	.2	1.9	3.0	1.7	.9	.1	.0	.2	37.8	
SE	.0	.0	*	.9	1.7	.9	.3	*	*	*	17.7	
S	.0	.0	.1	.3	.4	.1	.0	.0	.0	.0	2.5	
SW	.0	.0	*	.0	*	*	.0	*	.0	.0	.2	
W	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.1	
NW	.0	.0	.0	*	*	*	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	4	1	16	112	183	108	49	10	1	9	2162	2655
TOT PCT	.2	*	.6	4.2	6.9	4.1	1.8	.4	*	.3	81.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.6	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	5.4	6.4	6.6	6.6	6.6	6.6	6.6	6.6
* OR >1000	11.2	13.0	13.4	13.4	13.4	13.4	13.4	13.4
* OR >600	14.6	17.2	17.7	17.7	17.7	17.7	17.7	17.7
* OR >300	14.8	17.7	18.3	18.3	18.3	18.3	18.3	18.3
* OR >150	14.9	17.8	18.3	18.3	18.3	18.3	18.3	18.3
* OR > 0	15.0	17.8	18.4	18.4	18.4	18.4	18.4	18.4
TOTAL	399	476	491	492	492	492	492	492

TOTAL NUMBER OF OBS: 2667

PCT FREQ NH <5/8: 81.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.7	16.9	26.8	21.2	11.9	6.2	4.8	3.4	4.0 .1	2803

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	.2	.1	*	*	.0	.0	.0	.0	.4	
2<5	NO PCP	*	.2	.5	.1	.1	.0	.0	*	.0	.0	1.0	
	TOT %	*	.3	.7	.2	.2	*	.0	*	.0	.0	1.4	
	PCP	.1	.3	.5	.4	.2	*	.0	.0	.0	.0	1.6	
5<10	NO PCP	.5	2.4	3.5	2.7	.4	.1	*	.1	.0	.1	9.8	
	TOT %	.6	2.7	4.0	3.2	.5	.1	*	.1	.0	.1	11.4	
	PCP	.1	.6	.8	.5	*	*	*	*	.0	*	2.1	
10+	NO PCP	3.9	19.4	38.9	18.6	2.8	.3	.2	.2	.0	.7	85.0	
	TOT %	4.0	20.0	39.6	19.1	2.8	.3	.3	.3	.0	.7	87.1	
	TOT OBS												3198
	TOT PCT	4.6	23.0	44.5	22.5	3.6	.4	.3	.4	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
1<2	4-10	*	*	*	.0	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	*	*	.0	.0	.0	.0	.0	.2	
	0-3	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	*	.2	.3	.1	*	*	.0	*	.0		.7	
	11-21	*	.1	.2	.1	.1	*	*	*	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.6	.2	.1	*	*	.1	.0	.0	1.4	
	0-3	*	.1	.1	.1	*	.0	.0	*	.0	.1	.6	
5<10	4-10	.3	1.6	2.1	1.6	.2	.1	*	*	.0		5.9	
	11-21	.2	.5	.9	.6	.2	*	.0	.1	.0		2.5	
	22+	*	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.6	2.2	3.1	2.4	.4	.1	*	.1	.0	.1	9.1	
	0-3	.4	1.2	1.6	1.2	.2	.1	*	*	.0	.8	5.6	
10+	4-10	2.1	13.1	29.7	15.9	1.6	.2	.2	.3	.0		63.3	
	11-21	1.2	4.1	9.2	4.8	.6	.1	*	*	.0		20.1	
	22+	.0	.1	.1	.1	.1	*	*	.0	.0		.4	
	TOT %	3.7	18.6	40.6	22.0	2.5	.4	.3	.4	.0	.8	89.3	
	TOT OBS												5820
	TOT PCT	4.3	21.2	44.4	24.6	3.1	.6	.4	.5	.0	.9	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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14.1S 36.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	.4	4.2	5.6	3.6	.7	.3	.0	.4	15.5	84.5	696
06&09	.0	.0	.7	3.3	6.8	3.6	1.6	.3	.0	.4	16.8	83.2	674
12&15	.1	.1	.6	5.0	7.5	4.4	2.5	.1	.0	.1	20.5	79.5	721
18&21	.1	.0	.6	4.2	6.5	3.9	2.2	.7	.1	.3	18.7	81.3	691
TOT	4	1	16	116	184	108	49	10	1	9	498	2284	2782
PCT	.1	*	.6	4.2	6.6	3.9	1.8	.4	*	.3	17.9	82.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.3	1.4	9.3	89.0	1405
06&09	.1	.0	.1	1.8	11.1	86.9	1561
12&15	.1	.0	.3	1.0	7.3	91.3	1415
18&21	.1	.0	.1	1.3	8.6	90.0	1485
TOT	3	0	11	81	537	5234	5866
PCT	.1	.0	.2	1.4	9.2	89.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	.8	5.7	10.8	83.4	664
06&09	.0	.8	5.7	12.6	81.7	644
12&15	.1	.9	6.0	14.9	79.1	698
18&21	.2	.8	5.6	13.8	80.6	661
TOT	4	21	154	348	2165	2667
PCT	.1	.8	5.8	13.0	81.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	.2	*	.0	14	.5
85/89	.0	.0	.0	.3	2.6	3.4	.9	.2	197	7.5
80/84	.0	.0	.0	.5	9.9	45.5	18.4	4.2	2073	78.5
75/79	.0	.0	.0	.0	.2	3.6	6.4	3.2	353	13.4
70/74	.0	.0	.0	.0	.0	.0	*	.2	5	.2
TOTAL	0	0	0	25	341	1390	681	205	2642	100.0
PCT	.0	.0	.0	.9	12.9	52.6	25.8	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.2	.2	*	*	.0	.0	*	.0	.0
.5	2.1	3.0	1.5	.3	.0	.0	*	.0	*
3.7	17.7	35.2	18.4	2.3	.2	.2	.2	.0	.6
.4	2.4	5.6	3.5	.8	.1	.1	.2	.0	.2
*	*	.1	*	.0	.0	.0	.0	.0	.0
4.7	22.5	44.1	23.3	3.5	.4	.3	.5	.0	.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	83	81	78	76	69	80.5	2127
06&09	89	85	83	80	77	74	69	80.2	2611
12&15	94	89	87	82	78	76	71	82.3	2232
18&21	95	90	86	82	79	76	70	82.1	2482
TOT	95	88	85	81	78	75	69	81.3	9452

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	4.2	55.4	32.5	7.4	79	662
06&09	.0	.2	3.6	53.8	31.8	10.7	80	666
12&15	.0	1.7	19.2	51.1	19.9	8.1	76	693
18&21	.0	1.5	23.9	50.0	19.7	4.8	75	660
TOT	0	26	343	1409	695	208	78	2681

PERIOD: (PRIMARY) 1914-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.1	.0	.0	.1	4	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
7/8	.0	.0	.0	.1	.1	.4	.0	18	.0	.6
6	.0	.0	.0	*	.1	.2	.0	11	.0	.4
5	.0	.0	.0	.1	.8	.2	.0	34	.0	1.2
4	.0	.0	*	.6	1.5	.0	.0	61	.0	2.1
3	.0	.0	*	.9	1.6	.0	.0	74	.0	2.6
2	.0	.0	.3	4.0	1.2	.0	.0	157	*	5.4
1	.0	.0	.5	7.8	1.0	*	.0	270	.0	9.4
0	.0	.0	1.4	14.7	.1	.0	.0	465	.1	16.1
-1	.0	.0	4.8	16.6	.2	.0	.0	620	.1	21.5
-2	.0	.1	7.1	9.5	.1	.0	.0	480	.1	16.6
-3	.0	*	6.3	4.1	.1	.0	.0	303	*	10.5
-4	.0	.1	4.2	1.6	*	.0	.0	173	.0	6.0
-5	.0	.2	2.6	.7	.0	.0	.0	102	.0	3.6
-6	.0	.3	1.3	.1	.0	.0	.0	47	.0	1.6
-7/-8	*	.6	.6	.2	.0	.0	.0	39	.0	1.4
-9/-10	.0	.2	.1	.0	.0	.0	.0	7	.0	.2
-11/-13	.0	*	.0	.0	.0	.0	.0	1	.0	*
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	44	841	1754	198	30	2	2871	10	2861
PCT	.1	1.5	29.3	61.1	6.9	1.0	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.2	.1	.0	.0	.0	1.3
3-4	.0	.5	.7	.0	.0	.0	1.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	1.1	.0	.0	.0	3.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	*	.0	.0	.0	.8
1-2	.6	7.7	1.5	.0	.0	.0	9.8
3-4	.1	4.5	2.5	.0	.0	.0	7.1
5-6	.0	.7	1.3	.0	.0	.0	2.1
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	13.6	5.7	.0	.0	.0	20.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.3	.1	.0	.0	.0	3.5
1-2	.5	17.3	3.1	.0	.0	.0	20.9
3-4	.0	9.0	8.1	.2	.0	.0	17.3
5-6	.0	1.9	3.1	.1	.0	.0	5.1
7	.0	.4	.4	.0	.0	.0	.9
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	31.1	14.9	.3	.0	.0	47.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.2	.0	.0	.0	1.2
1-2	.4	8.1	1.5	.0	.0	.0	10.0
3-4	.2	4.4	3.4	*	.0	.0	7.9
5-6	.0	.6	2.2	*	.0	.0	2.8
7	.0	.1	.4	.1	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	14.1	7.6	.1	.0	.0	22.6

MARCH

PERIOD: (OVER-ALL) 1963-1973 AREA 0007 SALVADOR

TABLE 18 (CONT) 14.1S 36.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.1
1-2	.2	1.3	.2	.0	.0	.0	1.7	*	.0	.0	.0	.0	.0	*
3-4	.0	.8	.7	.0	.0	.0	1.5	.0	*	*	.0	.0	.0	.1
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.1	*	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	1.7	.0	.0	.0	4.1	*	.2	.1	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	4.2	.3	.0	.0	.0	7.7	
1-2	2.0	36.0	6.3	.0	.0	.0	44.3	
3-4	.3	19.0	15.2	.2	.0	.0	34.7	
5-6	.0	3.3	7.6	.1	.0	.0	11.0	
7	.0	.6	1.2	.1	.0	.0	1.9	
8-9	.0	.2	.1	.0	.0	.0	.3	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1110
TOT PCT	5.5	63.4	30.6	.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	18.4	20.7	5.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1114	3
6-7	.2	1.9	13.7	8.3	2.7	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	632	4
8-9	.0	.7	2.1	2.0	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	5
10-11	.0	.3	.5	1.1	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	5
12-13	.0	.0	.7	.5	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
>13	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
INDET	2.5	3.3	3.6	1.8	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	265	3
TOTAL	130	560	939	460	129	42	16	0	0	0	0	0	0	0	0	0	0	0	0	2276	3
PCT	5.7	24.6	41.3	20.2	5.7	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.6	2.3	1.1	.0	.0	.0	.0	8.0	7.0	2.1	.8	.0	.0		.0	82.1
NE	1.9	4.0	1.3	.0	.0	.0	.0	6.9	2.9	1.0	2.4	.0	.0		.0	86.8
E	1.5	4.3	.6	.0	.0	.0	.0	6.2	3.3	1.1	.8	.0	.1		.0	88.6
SE	3.2	5.2	.5	.0	.0	.0	.0	8.8	4.6	1.0	.0	.0	.1		.1	85.6
S	2.9	7.0	.0	.0	.0	.0	.0	9.9	5.7	.0	.0	.0	.0		.0	84.5
SW	2.1	9.0	7.3	.0	.0	.0	.0	18.5	2.1	1.7	1.7	.0	.0		.0	76.0
W	3.9	13.2	3.9	.0	.0	.0	.0	21.1	5.3	5.3	5.3	.0	.0		.0	63.2
NW	3.9	3.9	1.0	.0	.0	.0	.0	8.7	5.8	6.8	.0	.0	.0		.0	78.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.4	4.8	.7	.0	.0	.0	.0	7.8	4.0	1.1	.7	.0	.1		*	86.4
TOT OBS:	3468															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	4.6	.7	.0	.0	.0	.0	7.0	4.3	2.2	.8	.0	.0		.1	85.8
06&09	3.0	5.6	.8	.0	.0	.0	.0	9.3	4.3	1.7	.7	.0	.0		.0	84.4
12&15	3.0	5.0	.9	.0	.0	.0	.0	8.8	3.5	.2	.5	.0	.3		.0	86.7
18&21	1.9	4.3	.4	.0	.0	.0	.0	6.5	4.3	.2	.8	.0	.0		.0	88.1
TOT PCT	2.4	4.9	.7	.0	.0	.0	.0	7.9	4.1	1.1	.7	.0	.1		*	86.2
TOT OBS:	3594															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.9	.7	*	.0	.0		3.0	8.1	2.1	1.8	2.0	2.2	4.6	3.6	4.4	2.6
NE	1.1	8.5	2.2	*	.0	.0		11.9	8.0	11.5	10.0	11.9	11.9	12.1	13.3	12.3	11.0
E	2.3	22.7	8.7	.3	.0	.0		33.9	8.8	32.7	34.7	35.2	36.3	33.4	33.0	32.7	33.8
SE	2.2	22.5	13.4	1.0	*	.0		39.1	10.0	37.1	43.1	40.5	43.4	33.8	38.1	36.5	42.2
S	.6	4.0	2.8	.6	*	.0		8.0	10.9	13.0	7.9	7.1	3.7	10.0	6.8	8.9	6.4
SW	.3	.5	.4	*	.0	.0		1.2	8.6	.8	.8	.9	.9	2.2	2.0	1.2	.6
W	.1	.2	.1	.0	.0	.0		.4	6.6	.2	*	.2	.3	1.1	.9	.5	.3
NW	.2	.3	.1	.0	.0	.0		.5	6.5	.4	.0	.3	.3	1.3	.6	.7	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	2.2	1.7	1.9	1.0	1.6	1.7	2.8	2.9
TOT OBS	901	5946	2775	193	3	0	9818		9.1	1061	1112	1808	911	1031	1303	1732	860
TOT PCT	9.2	60.6	28.3	2.0	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	1.7	.1	.0	.0		3.0	8.1	2.0	2.1	4.0	3.8
NE	4.9	6.6	.3	*	.0		11.9	8.0	10.7	11.9	12.8	11.9
E	11.4	20.6	1.8	*	.0		33.9	8.8	33.7	35.6	33.2	33.1
SE	10.5	24.4	4.0	.2	.0		39.1	10.0	40.2	41.5	36.2	38.4
S	2.3	4.4	1.2	.2	.0		8.0	10.9	10.4	6.0	8.2	8.1
SW	.5	.6	.1	.0	.0		1.2	8.6	.8	.9	2.1	1.0
W	.3	.1	*	.0	.0		.4	6.6	.1	.3	1.0	.5
NW	.2	.2	*	.0	.0		.5	6.5	.2	.3	.9	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	1.9	1.6	1.7	2.9
TOT OBS	3262	5761	754	41	0	9818		9.1	2173	2719	2334	2592
TOT PCT	33.2	58.7	7.7	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	7.6	61.6	26.8	1.9	.1	.0	9.0	100.0	2173
06&09	1.6	5.8	61.9	28.8	1.9	.0	.0	9.2	100.0	2719
12&15	1.7	8.4	58.1	29.7	2.1	.0	.0	9.2	100.0	2334
18&21	2.9	7.1	60.5	27.5	2.0	*	.0	8.9	100.0	2592
TOT	198	703	5946	2775	193	3	0	9.1		9818
PCT	2.0	7.2	60.6	28.3	2.0	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.0	1.3	.9		5.1
NE	4.8	3.8	3.0	1.0		3.5
E	11.3	11.7	9.7	2.2		3.7
SE	11.0	11.1	10.4	3.0		3.9
S	2.3	2.2	3.5	1.0		4.4
SW	.1	.2	.5	.2		5.4
W	.1	.0	.2	.1		5.9
NW	.1	.1	.1	.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.5	*		2.5
TOT OBS	841	806	781	229	2657	3.9
TOT PCT	31.7	30.3	29.4	8.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.0	.5	.3	.1	.3	.0	.0	.0	2.6	
NE	*	*	*	.4	.8	.5	.2	.2	.0	.0	10.4	
E	.0	.1	.3	1.6	2.2	1.1	.5	.2	.0	.1	29.0	
SE	.1	.0	.4	1.9	2.2	1.7	.8	.1	*	.1	28.1	
S	*	.0	.2	.7	1.4	.4	.2	*	.0	.0	6.1	
SW	.0	.1	*	.1	.2	.1	*	.0	.0	.0	.5	
W	.0	.0	.0	*	.1	*	.2	.0	.0	.0	.1	
NW	*	.0	.0	.1	*	.0	.1	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.1	*	.0	.0	.0	1.8	
TOT OBS	6	5	24	145	195	105	61	13	1	4	2098	2657
TOT PCT	.2	.2	.9	5.5	7.3	4.0	2.3	.5	*	.2	79.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.6	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.3	2.8	2.9	2.9	2.9	2.9	3.0	3.0
* OR >2000	5.1	6.6	6.8	6.8	6.8	6.8	6.9	6.9
* OR >1000	10.6	13.6	14.1	14.2	14.2	14.2	14.3	14.3
* OR >600	14.6	18.6	19.5	19.6	19.6	19.6	19.7	19.7
* OR >300	15.2	19.4	20.4	20.5	20.5	20.5	20.6	20.6
* OR >150	15.2	19.5	20.5	20.6	20.6	20.6	20.7	20.7
* OR > 0	15.3	19.7	20.6	20.8	20.8	20.8	20.9	20.9
TOTAL	414	533	559	563	564	564	568	568

TOTAL NUMBER OF OBS: 2712

PCT FREQ NH <5/8: 79.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.8	16.5	24.2	21.6	11.8	6.5	5.5	4.1	4.7	.1	2847

PERIOD: (PRIMARY) 1914-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.1	
	TOT %	.0	.0	.1	*	*	.0	*	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	*	*	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
2<5	PCP	*	.1	.3	.4	.1	*	*	.0	.0	.0	1.0	
	NO PCP	.1	.1	.5	.3	.2	.0	.0	.0	.0	.1	1.2	
	TOT %	.2	.1	.8	.7	.4	*	*	.0	.0	.1	2.2	
5<10	PCP	.2	.3	.8	1.2	.4	.1	*	*	.0	.0	3.0	
	NO PCP	.5	1.5	3.4	4.9	1.3	.2	.1	.1	.0	.2	12.3	
	TOT %	.6	1.8	4.3	6.1	1.7	.4	.1	.1	.0	.2	15.3	
10+	PCP	.1	.5	.9	1.3	.4	.2	.1	*	.0	.0	3.5	
	NO PCP	2.9	10.1	27.9	27.3	6.9	1.1	.3	.6	.0	1.4	78.5	
	TOT %	3.0	10.5	28.9	28.6	7.3	1.3	.4	.6	.0	1.4	82.0	
	TOT OBS												3465
	TOT PCT	3.8	12.5	34.0	35.6	9.4	1.7	.5	.7	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.0	*	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.1	*	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	*	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.1	*	*	*	.0	.0	.0	.3	
2<5	0-3	*	*	*	.1	*	*	*	.0	.0	.1	.3	
	4-10	*	.1	.3	.3	.1	*	.0	.0	.0		.9	
	11-21	.1	*	.2	.3	.1	.0	.0	.0	.0		.7	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.6	.7	.3	*	*	.0	.0	.1	2.0	
5<10	0-3	.1	.2	.2	.3	.2	*	*	*	.0	.1	1.2	
	4-10	.3	1.0	2.0	2.4	.4	.1	*	*	.0		6.2	
	11-21	.1	.4	1.2	2.1	.6	.1	*	*	.0		4.6	
	22+	.0	.0	*	.2	.1	.0	.0	.0	.0		.3	
	TOT %	.5	1.6	3.5	4.9	1.3	.3	.1	.1	.0	.1	12.4	
10+	0-3	.3	.9	2.2	2.0	.5	.3	*	.2	.0	1.6	8.0	
	4-10	1.8	8.0	21.7	19.0	3.7	.5	.2	.3	.0		55.1	
	11-21	.6	2.0	6.5	9.0	2.3	.3	*	.1	.0		20.8	
	22+	*	*	.1	.5	.5	*	.0	.0	.0		1.1	
	TOT %	2.8	10.8	30.5	30.5	7.0	1.1	.3	.5	.0	1.6	85.1	
	TOT OBS												6007
	TOT PCT	3.3	12.7	34.7	36.3	8.7	1.4	.5	.6	.0	1.8	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	.3	3.9	6.2	5.2	1.6	.1	.1	.1	17.8	82.2	696
06&09	.3	.0	1.5	5.0	8.7	3.2	1.8	.6	.0	.1	21.1	78.9	681
12&15	.0	.3	.7	5.6	6.9	3.2	3.2	1.0	.0	.1	20.9	79.1	729
18&21	.3	.4	1.0	6.3	6.9	3.5	2.2	.4	.0	.1	21.1	78.9	714
TOT	6	5	24	147	201	106	62	15	1	4	571	2249	2820
PCT	.2	.2	.9	5.2	7.1	3.8	2.2	.5	*	.1	20.2	79.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.3	2.6	12.9	83.9	1431
06&09	.2	.1	.3	1.8	14.4	83.2	1616
12&15	.1	.1	.2	2.1	11.4	86.2	1514
18&21	.0	.1	.5	1.8	11.0	86.7	1533
TOT	5	7	20	125	758	5179	6094
PCT	.1	.1	.3	2.1	12.4	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	.9	6.7	12.9	80.4	672
06&09	.3	2.0	8.5	14.2	77.4	650
12&15	.0	1.0	7.4	14.0	78.6	706
18&21	.3	1.6	8.9	13.3	77.8	684
TOT	6	37	213	369	2130	2712
PCT	.2	1.4	7.9	13.6	78.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	*	.0	.0	8	.3
85/89	.0	.0	.0	.3	2.0	2.1	.2	.3	136	4.9
80/84	.0	.0	.0	.3	9.3	42.0	18.0	2.8	2017	72.5
75/79	.0	.0	.0	.2	.8	6.3	9.7	4.9	609	21.9
70/74	.0	.0	.0	.0	.0	.0	.1	.4	13	.5
TOTAL	0	0	0	25	341	1405	781	231	2783	100.0
PCT	.0	.0	.0	.9	12.3	50.5	28.1	8.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	*	*	.0	.0	.0	.0	.0
.3	.8	1.4	1.6	.5	.1	*	*	.0	.1
2.8	8.7	26.6	26.7	5.3	.6	.3	.3	.0	1.2
.6	1.7	6.4	8.8	3.3	.5	.1	.2	.0	.3
*	.0	.2	.1	.0	*	.1	.0	.0	.0
3.7	11.3	34.7	37.3	9.0	1.3	.5	.5	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	84	82	80	77	75	72	80.0	2175
06&09	90	84	82	80	76	74	71	79.7	2692
12&15	94	90	86	82	77	75	72	81.7	2276
18&21	92	88	85	81	78	75	70	81.3	2537
TOT	94	87	84	81	77	75	70	80.6	9680

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	5.8	52.2	32.2	9.4	80	689
06&09	.0	.3	6.2	49.2	34.2	10.2	80	708
12&15	.0	1.4	17.5	49.0	23.0	9.1	77	761
18&21	.0	1.4	19.0	50.6	24.0	5.0	76	696
TOT	0	25	349	1433	806	241	78	2854

PERIOD: (PRIMARY) 1914-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	*	.0	*	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
7/8	.0	.0	.0	.1	.2	.2	.0	16	.0	.5
6	.0	.0	*	.2	.2	*	.0	13	.0	.4
5	.0	.0	.0	.2	.4	.1	.0	22	.0	.7
4	.0	.0	.1	.3	.7	.0	.0	32	.0	1.1
3	.0	.0	.1	.9	.7	.0	.0	52	.0	1.7
2	.0	.0	.5	3.3	1.0	.0	.0	146	.1	4.8
1	.0	.0	.8	5.5	.8	.0	.0	211	.0	7.0
0	.0	.0	2.5	12.4	.2	.0	.0	455	.2	15.0
-1	.0	*	6.5	13.6	.2	.0	.0	612	.2	20.2
-2	.0	.1	10.5	7.8	.0	.0	.0	551	.2	18.2
-3	.0	*	9.4	3.6	*	.0	.0	390	.1	12.9
-4	.0	.4	6.2	1.0	*	.0	.0	230	.0	7.7
-5	.0	.5	3.3	.6	*	.0	.0	135	.0	4.5
-6	.0	.6	1.3	.2	.0	.0	.0	64	.0	2.1
-7/-8	.0	.8	.7	.2	.0	.0	.0	52	.0	1.7
-9/-10	*	.3	.1	*	.0	.0	.0	14	.0	.5
-11/-13	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	84	1265	1497	140	14	1	3002	20	2982
PCT	*	2.8	42.1	49.9	4.7	.5	*	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9
1-2	.2	2.1	.1	.0	.0	.0	2.3
3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.0	1.5	.1	.0	.0	5.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	*	.0	.0	.0	1.7
1-2	.2	5.1	.5	.0	.0	.0	5.7
3-4	.0	2.3	2.0	.0	.0	.0	4.3
5-6	.0	.2	.2	*	.0	.0	.4
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.9	2.9	*	.0	.0	12.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.0	.4	.0	.0	.0	3.5
1-2	1.4	13.6	2.2	.0	.0	.0	17.1
3-4	.0	4.8	4.2	.2	.0	.0	9.2
5-6	.0	1.2	1.0	.1	.0	.0	2.3
7	.0	.3	.8	.0	.0	.0	1.1
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	22.0	8.7	.2	.0	.0	33.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	.0	.0	.0	.0	2.5
1-2	.4	11.8	2.9	.0	.0	.0	15.1
3-4	.0	4.4	6.5	.4	.0	.0	11.4
5-6	.0	1.4	2.6	.1	.0	.0	4.0
7	.0	*	1.0	.1	.0	.0	1.1
8-9	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	19.8	13.2	.9	.0	.0	34.7

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.0	*	.0	.0	.0	.0	*
1-2	.2	2.6	1.1	.0	.0	.0	3.9	.0	.3	.6	.0	.0	.0	.9
3-4	.2	1.4	1.1	.4	.0	.0	3.1	.0	*	*	.0	.0	.0	.1
5-6	.0	.0	.5	.4	.0	.0	.9	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.2	.1	.0	.0	.2	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.7	2.8	.8	.0	.0	8.9	.0	.4	.6	.0	.0	.0	1.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1-2	.1	.2	.1	.0	.0	.0	.3	*	.3	.0	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.2	.2	.0	.0	.0	.5	.1	.3	.1	.0	.0	.0	.5	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	6.9	.4	.0	.0	.0	13.8	
1-2	2.9	35.8	7.1	.0	.0	.0	45.8	
3-4	.2	13.2	14.7	.9	.0	.0	29.0	
5-6	.0	2.8	4.6	.6	.0	.0	7.9	
7	.0	.4	2.1	.2	.0	.0	2.8	
8-9	.0	.1	.1	.2	.0	.0	.3	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1163
TOT PCT	9.6	59.1	29.3	2.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	15.3	18.3	6.2	1.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	989	3
6-7	.1	2.7	10.1	11.0	3.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	616	4
8-9	.0	.7	2.5	3.1	2.2	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	219	5
10-11	.0	.8	.5	.6	.2	.5	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	5
12-13	.0	.0	.4	.3	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
>13	.0	.0	.0	.4	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
INDET	3.2	3.9	3.1	2.2	.7	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	302	3
TOTAL	127	521	776	527	174	67	22	9	2	0	0	0	0	0	0	0	0	0	0	2225	4
PCT	5.7	23.4	34.9	23.7	7.8	3.0	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	1.2	1.8	.0	.0	.0	.0	2.9	.9	1.5	.0	.0	1.2		.0	93.5
NE	.9	2.2	.2	.0	.0	.0	.0	3.3	1.6	.8	2.3	.0	.0		.3	91.8
E	1.4	4.1	.5	.0	.0	.0	.0	6.1	3.5	.3	1.4	.0	.1		.0	88.7
SE	2.3	4.5	1.0	.0	.0	.0	.0	7.7	4.7	.3	.9	.0	.1		.1	86.3
S	4.3	5.1	1.4	.0	.0	.0	.0	10.8	5.7	.3	.4	.0	.3		.0	82.5
SW	6.3	5.1	2.2	.0	.0	.0	.0	13.5	2.2	.0	.0	.0	1.0		.0	83.3
W	15.8	.0	10.5	.0	.0	.0	.0	15.8	3.9	.0	5.3	.0	.0		.0	75.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.0	.0	.0		.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0		.0	97.0
TOT PCT	2.3	4.1	.9	.0	.0	.0	.0	7.3	4.0	.4	1.1	.0	.2		.1	87.1
TOT OBS:	3462															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.0	5.2	1.4	.0	.0	.0	.0	6.6	3.5	.6	.7	.0	.2		.0	86.5
06&09	2.9	3.6	.8	.0	.0	.0	.0	7.4	4.7	.8	1.3	.0	.2		.1	85.6
12&15	2.6	3.2	.9	.0	.0	.0	.0	6.6	3.3	.0	.8	.0	.2		.0	89.1
18&21	1.6	4.5	.6	.0	.0	.0	.0	6.4	4.1	.1	1.7	.0	.0		.1	87.5
TOT PCT	2.3	4.1	.9	.0	.0	.0	.0	7.2	3.9	.4	1.1	.0	.2		.1	87.2
TOT OBS:	3517															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.4	.3	.0	.0	.0		2.0	6.9	2.8	1.6	1.5	1.9	2.7	1.7	2.5	1.6
NE	.9	5.2	1.2	*	.0	.0		7.3	7.3	7.7	6.2	7.5	7.3	7.6	6.8	7.7	7.8
E	1.6	15.7	9.2	.6	*	.0		27.2	9.9	26.1	28.1	28.4	27.9	27.7	26.0	27.1	25.2
SE	1.8	21.2	20.0	3.2	.1	.0		46.3	11.8	40.5	48.1	48.2	51.5	42.2	46.3	44.0	49.8
S	.7	5.1	5.6	1.4	.1	.0		12.9	12.8	17.1	13.2	11.6	9.3	13.1	12.2	13.9	12.9
SW	.4	1.1	.7	.1	.0	.0		2.2	9.0	3.5	.9	1.3	.7	3.9	4.2	2.0	1.2
W	.1	.3	.1	.0	.0	.0		.4	7.2	.3	.3	.2	.0	.8	.8	.5	.2
NW	.1	.3	*	.0	.0	.0		.4	6.0	.4	.3	.1	.2	.7	.7	.5	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.5	1.4	1.2	1.1	1.2	1.3	1.6	1.1
TOT OBS	805	3571	4126	585	25	0	11112		10.7	1109	1284	2028	1040	1016	1580	2014	1041
TOT PCT	7.2	32.1	37.1	5.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	.8	.1	.0	.0		2.0	6.9	2.2	1.6	2.1	2.2
NE	3.7	3.5	.1	.0	.0		7.3	7.3	6.9	7.4	7.1	7.8
E	7.5	16.7	2.8	.1	*		27.2	9.9	27.2	28.2	26.7	26.4
SE	8.5	28.2	8.9	.8	*		46.3	11.8	44.6	49.3	44.7	46.0
S	2.3	6.8	3.3	.5	*		12.9	12.8	15.0	10.8	12.5	13.5
SW	.9	1.1	.3	*	.0		2.2	9.0	2.1	1.1	4.1	1.7
W	.2	.2	*	.0	.0		.4	7.2	.3	.1	.8	.4
NW	.3	.1	*	.0	.0		.4	6.0	.3	.2	.7	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.5	1.2	1.2	1.4
TOT OBS	2865	6367	1724	154	2	11112		10.7	2393	3068	2596	3055
TOT PCT	25.8	57.3	15.5	1.4	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	6.9	51.3	34.9	5.3	.2	.0	10.5	100.0	2393
06&09	1.2	4.9	50.4	37.4	5.9	.3	.0	11.0	100.0	3068
12&15	1.2	7.3	47.8	38.4	5.0	.2	.0	10.7	100.0	2596
18&21	1.4	5.0	50.9	37.5	4.8	.2	.0	10.7	100.0	3055
TOT	147	658	5571	4126	585	25	0	10.7		11112
PCT	1.3	5.9	50.1	37.1	5.3	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.8	.7	.2		3.2
NE	3.3	2.7	2.3	.4		3.5
E	10.5	9.6	7.9	2.8		3.8
SE	13.1	13.1	12.3	4.1		4.0
S	2.5	2.7	4.5	2.3		4.9
SW	.3	.1	.6	.1		4.7
W	.1	.1	.1	.1		4.3
NW	.1	.2	.2	*		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.2	.0		2.3
TOT OBS	829	775	752	260	2616	3.9
TOT PCT	31.7	29.6	28.7	9.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	*	.1	.1	.0	.0	.0	.0	2.5	
NE	.1	.0	*	.4	.6	.3	.1	.0	.0	.0	7.2	
E	.1	.0	.2	2.2	2.7	.9	.4	.1	*	.2	24.0	
SE	.1	.1	.5	2.5	4.4	1.5	1.2	.4	.1	.1	31.9	
S	.2	.1	.5	.8	1.7	.7	.5	.1	.0	.1	7.3	
SW	.0	*	*	.1	.1	*	.1	.0	.0	.0	.6	
W	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
NW	.0	.0	.0	*	.1	.0	.0	*	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.0	
TOT OBS	14	5	33	159	258	94	58	18	3	8	1966	2616
TOT PCT	.5	.2	1.3	6.1	9.9	3.6	2.2	.7	.1	.3	75.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.7	1.0	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.8	3.2	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	5.8	6.7	7.0	7.0	7.0	7.0	7.0	7.0
* OR >1000	13.5	16.2	16.7	16.7	16.7	16.7	16.7	16.7
* OR >600	17.6	21.9	22.8	22.8	22.8	22.8	22.8	22.8
* OR >300	18.3	22.9	23.9	24.0	24.0	24.0	24.0	24.0
* OR >150	18.4	23.0	24.0	24.1	24.1	24.1	24.1	24.1
* OR > 0	18.6	23.3	24.4	24.6	24.6	24.7	24.7	24.7
TOTAL	489	614	641	647	648	649	649	649

TOTAL NUMBER OF OBS: 2630

PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.5	15.4	22.9	18.8	11.9	6.7	6.3	5.0	7.1 .3	2772

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.1	*	.1	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.3	
2<5	PCP	.0	*	.3	.3	.2	.1	.1	.0	.0	.0	1.0	
	NO PCP	*	.2	.3	.6	.4	.2	.0	*	.0	.0	1.6	
	TOT %	*	.2	.6	.9	.6	.2	.1	*	.0	.0	2.6	
5<10	PCP	.0	*	.9	1.3	.5	.1	*	.0	.0	.0	2.8	
	NO PCP	.2	1.2	4.0	5.2	2.0	.5	.1	*	.0	*	13.3	
	TOT %	.2	1.3	4.9	6.5	2.5	.6	.1	*	.0	*	16.2	
10+	PCP	.1	.2	.6	1.4	.6	.1	.0	.0	.0	*	3.0	
	NO PCP	2.1	6.9	23.9	32.2	9.0	1.9	.4	.4	.0	.9	77.8	
	TOT %	2.2	7.1	24.4	33.6	9.6	2.0	.4	.4	.0	.9	80.7	
	TOT OBS												3454
	TOT PCT	2.5	8.6	29.9	41.2	12.8	3.0	.6	.5	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	*	*	.0	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.0	*	*	.1	*	*	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	4-10	*	*	*	.2	*	*	.0	.0	.0		.3	
	11-21	.0	.0	*	.1	*	.0	.0	.0	.0		.2	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	.4	.1	*	.0	.0	.0	.0	.6	
2<5	0-3	.0	*	*	.1	.2	.1	.0	*	.0	.0	.5	
	4-10	*	.1	.3	.3	*	.1	.0	.0	.0		.8	
	11-21	.0	*	.2	.4	.2	*	*	.0	.0		.8	
	22+	.0	.0	.0	.1	*	*	.0	.0	.0		.1	
	TOT %	*	.2	.5	.9	.4	.2	*	*	.0	.0	2.2	
5<10	0-3	*	.1	.1	.3	.2	.1	*	*	.0	*	1.0	
	4-10	.1	.6	2.1	2.1	.7	.2	*	.0	.0		5.9	
	11-21	*	.2	1.6	2.7	.7	.2	*	.0	.0		5.5	
	22+	.0	*	.1	.5	.3	*	.0	.0	.0		.9	
	TOT %	.2	1.0	3.9	5.7	1.9	.5	.1	*	.0	*	13.3	
10+	0-3	.3	1.0	1.3	1.4	.4	.3	.1	.1	.0	1.1	6.1	
	4-10	1.5	4.8	14.6	17.6	4.3	1.0	.3	.3	.0		44.3	
	11-21	.4	1.0	8.2	15.8	4.7	.6	.1	*	.0		30.7	
	22+	.0	*	.1	1.3	1.0	.1	.0	.0	.0		2.4	
	TOT %	2.2	6.7	24.3	36.1	10.4	2.0	.4	.4	.0	1.1	83.6	
	TOT OBS												6069
	TOT PCT	2.4	7.9	28.9	43.1	12.9	2.8	.5	.4	.0	1.2	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.3	1.0	5.5	9.5	2.9	1.6	.6	.1	.3	22.6	77.4	685
06&09	.5	.2	1.7	7.8	8.4	2.4	2.0	.3	.2	.5	23.8	76.2	655
12&15	.5	.2	.8	4.4	10.8	4.6	2.3	.3	.0	.2	23.8	76.2	659
18&21	.4	.1	1.4	5.8	9.4	4.3	2.6	1.4	.1	.3	25.9	74.1	722
TOT	14	5	33	160	259	97	58	18	3	8	655	2066	2721
PCT	.5	.2	1.2	5.9	9.5	3.6	2.1	.7	.1	.3	24.1	75.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	1.0	3.1	12.8	82.7	1464
06&09	.1	.1	.4	2.2	15.3	82.0	1571
12&15	.0	.3	.7	2.2	12.3	84.4	1485
18&21	.1	.1	.3	1.4	12.9	85.3	1607
TOT	4	10	38	134	818	5123	6127
PCT	.1	.2	.6	2.2	13.4	83.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.1	8.8	15.1	76.1	661
06&09	.5	2.2	11.6	13.5	74.9	637
12&15	.5	1.4	6.4	17.8	75.7	639
18&21	.4	1.9	8.8	18.0	73.2	693
TOT	14	50	234	425	1971	2630
PCT	.5	1.9	8.9	16.2	74.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.1	.1	*	.0	.0	6	.2
85/89	.0	.0	.0	.1	1.0	.9	.1	.1	63	2.2
80/84	.0	.0	.1	.7	9.5	24.0	9.2	3.1	1328	46.5
75/79	.0	.0	.0	.3	4.3	22.0	16.3	6.9	1424	49.9
70/74	.0	.0	.0	.0	.1	.1	.4	.7	34	1.2
TOTAL	0	0	3	33	427	1339	744	309	2855	100.0
PCT	.0	.0	.1	1.2	15.0	46.9	26.1	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.1	*	*	.0	.0	.0	.0
.1	.3	.9	.6	.1	.1	*	*	.0	.0
1.6	4.4	16.0	18.7	4.6	.4	.2	.2	.0	.5
.9	3.7	13.2	21.3	8.2	1.5	.3	.1	.0	.6
.0	.0	.2	.4	.5	.1	.0	.0	.0	.0
2.6	8.5	30.2	41.1	13.4	2.2	.5	.4	.0	1.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	82	81	79	75	73	66	78.4	2391
06&09	88	82	81	78	75	73	68	78.2	3043
12&15	94	88	85	80	76	74	71	80.3	2520
18&21	93	87	84	80	76	74	70	79.7	2980
TOT	94	86	83	79	75	73	66	79.2	10934

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	9.5	49.5	27.0	13.1	79	727
06&09	.0	.3	7.9	46.8	32.5	12.4	80	707
12&15	.0	2.1	19.1	45.3	23.7	9.9	77	761
18&21	.0	1.6	22.6	46.7	20.9	8.2	76	707
TOT	0	36	430	1366	754	316	78	2902

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	.0	.1	.0	.1	.0	4	.0	.1
7/8	.0	.0	*	*	.1	.1	.0	8	.0	.3
6	.0	.0	.1	.0	.3	.0	.0	11	.0	.4
5	.0	*	.1	.1	.5	.0	.0	22	.0	.8
4	.0	.0	.2	.5	.4	.0	.0	33	*	1.1
3	.0	.1	.1	1.0	.4	.0	.0	47	.0	1.6
2	.0	*	.5	2.3	.3	.0	.0	93	*	3.1
1	.0	.1	2.4	4.5	.1	.0	.0	207	.1	7.0
0	.0	.2	6.3	6.4	.1	.0	.0	377	.4	12.5
-1	.0	.3	13.4	6.0	.0	.0	.0	577	.3	19.4
-2	.0	.4	16.0	3.3	.0	.0	.0	578	.2	19.6
-3	.0	.9	11.3	1.0	.0	.0	.0	387	.1	13.1
-4	.0	1.3	7.5	.4	.0	.0	.0	268	.0	9.2
-5	*	1.4	3.6	.3	.0	.0	.0	158	*	5.4
-6	*	1.1	1.2	.0	.0	.0	.0	68	*	2.3
-7/-8	.0	1.5	.8	.0	.0	.0	.0	67	.0	2.3
-9/-10	.0	.3	.1	.0	.0	.0	.0	13	.0	.4
-11/-13	.1	.1	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	5	226	1860	760	68	6	1	2926	35	2891
PCT	.2	7.7	63.6	26.0	2.3	.2	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3	.8	.5	.0	.0	.0	.0	1.2
1-2	.1	.8	.5	.0	.0	.0	1.4	.4	3.7	.6	.0	.0	.0	4.7
3-4	.0	.5	.0	.0	.0	.0	.5	.0	1.5	.5	*	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.5	.0	.0	.0	2.2	1.2	5.7	1.1	*	.0	.0	8.1

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.2	1.5	.1	.0	.0	.0	1.9
1-2	1.3	9.3	1.9	.0	.0	.0	12.5	.7	10.2	3.6	.0	.0	.0	14.4
3-4	.0	5.8	3.9	.1	.0	.0	9.7	.0	5.8	7.3	.2	.0	.0	13.3
5-6	.0	1.2	3.5	.1	.0	.0	4.8	.0	1.9	6.6	.3	.0	.0	8.9
7	.0	.1	.8	.1	.0	.0	1.1	.0	.1	2.5	.4	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.1	.6	.0	.0	1.7
10-11	.0	.1	.1	.0	.0	.0	.2	.0	*	.4	.6	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	16.9	10.2	.3	.0	.0	28.9	.9	19.6	21.8	2.2	.0	.0	44.4

PERIOD: (OVER-ALL) 1963-1973 — AREA 0007 SALVADOR 14.0S 36.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.2	.0	.0	.0	.7	.2	.3	.0	.0	.0	.0	.5
1-2	.1	1.6	.9	.0	.0	.0	2.6	.0	.5	.1	.0	.0	.0	.6
3-4	.0	1.8	2.0	.0	.0	.0	3.8	.0	.2	.3	.0	.0	.0	.5
5-6	.0	.3	1.8	.4	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.9	.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.3	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.3	6.2	1.4	.0	.0	12.0	.2	1.0	.4	.0	.0	.0	1.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.1	.3	.1	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.4	.1	.0	.0	.0	.6	.0	.2	.2	.0	.0	.0	.4	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	3.5	.3	.0	.0	.0	7.7	
1-2	2.9	26.2	7.7	.0	.0	.0	36.8	
3-4	.0	15.5	13.9	.3	.0	.0	29.7	
5-6	.0	3.5	11.8	.8	.0	.0	16.2	
7	.0	.3	4.3	1.0	.0	.0	5.5	
8-9	.0	.1	1.4	.8	.0	.0	2.3	
10-11	.0	.1	.5	.7	.0	.0	1.3	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1100
TOT PCT	6.8	49.3	40.1	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	11.3	16.2	5.4	2.1	.6	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	826	3
6-7	.1	2.1	10.1	14.6	4.9	2.3	.9	.2	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	766	5
8-9	.0	.4	1.7	3.8	3.3	1.1	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	6
10-11	.0	.7	.3	.6	.7	.6	.3	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	78	7
12-13	.0	.0	.6	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
>13	.0	.0	.0	.0	.1	*	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	7	12
INDET	1.2	2.2	3.3	1.8	.8	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	4
TOTAL	80	359	692	564	261	110	44	14	23	3	2	0	0	0	0	0	0	0	0	2152	4
PCT	3.7	16.7	32.2	26.2	12.1	5.1	2.0	.7	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.15 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	1.5	1.5	.0	.0	.0	.0	3.1	1.5	1.2	2.3	.0	.0		.0	91.9
NE	2.1	2.0	1.0	.0	.0	.0	.0	5.1	2.4	.1	3.0	.0	.4		.0	89.0
E	1.1	4.8	.5	.0	.0	.0	.0	6.2	4.8	.1	1.0	.1	.2		.1	87.7
SE	1.7	5.4	.8	.0	.0	.0	*	7.9	4.3	.1	.8	*	.1		.1	86.8
S	3.0	5.7	1.7	.0	.0	.0	.2	10.6	5.0	.0	.2	.0	.3		.0	83.8
SW	6.6	4.7	6.2	.0	.0	.0	.0	17.5	2.8	.0	.0	.0	.0		.0	79.6
W	51.7	.0	.0	.0	.0	.0	.0	51.7	.0	.0	.0	.0	.0		.0	48.3
NW	8.3	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.8	4.8	.9	.0	.0	.0	*	7.4	4.3	.1	1.0	*	.2		.1	87.1
TOT OBS:	3220															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	4.7	.4	.0	.0	.0	.0	6.9	4.7	.0	.8	.0	.3		.0	87.4
06&09	1.5	5.8	1.4	.0	.0	.0	.0	8.4	4.9	.3	1.4	.0	.3		.1	84.8
12&15	2.5	4.3	1.5	.0	.0	.0	.0	8.0	3.2	.1	.7	.0	.0		.0	88.2
18&21	1.3	4.3	.3	.0	.0	.0	.1	5.9	4.5	.0	1.3	.1	.1		.1	88.0
TOT PCT	1.8	4.7	.9	.0	.0	.0	*	7.3	4.3	.1	1.0	*	.2		.1	87.1
TOT OBS:	3255															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.0	.3	*	.0	.0		1.6	7.4	1.9	1.3	1.7	1.2	2.5	1.0	1.8	1.3
NE	.7	4.4	1.2	.1	.0	.0		6.3	8.1	7.4	5.8	7.0	5.5	6.4	5.0	7.1	5.5
E	1.6	15.6	11.8	1.0	*	.0		30.1	10.6	29.8	29.1	30.2	31.3	32.8	28.6	31.0	28.6
SE	1.6	21.2	23.1	3.0	.1	.0		49.0	12.1	44.2	52.5	49.5	51.4	43.4	50.4	47.2	52.9
S	.6	4.1	4.4	.8	.1	.0		10.1	12.1	12.1	9.5	9.5	9.2	10.6	10.8	10.0	9.3
SW	.2	.5	.3	*	.0	.0		1.0	8.8	1.5	.8	.6	.5	2.2	1.8	.7	.6
W	.1	.2	*	.0	.0	.0		.3	6.0	.1	*	.2	.1	.6	.6	.2	.1
NW	.1	.3	*	.0	.0	.0		.4	6.4	.4	.2	.1	.2	.9	.6	.4	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	2.6	.7	1.3	.6	.5	1.2	1.5	1.2
TOT OBS	697	5209	4533	548	18	0	11005		11.1	1023	1243	2000	1065	997	1666	1946	1065
TOT PCT	6.3	47.3	41.2	5.0	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	.7	*	*	.0		1.6	7.4	1.5	1.5	1.5	1.6
NE	2.8	3.1	.4	*	.0		6.3	8.1	6.5	6.5	5.5	6.5
E	7.3	18.4	4.3	.2	*		30.1	10.6	29.4	30.6	30.2	30.2
SE	8.1	29.2	11.1	.6	*		49.0	12.1	48.8	50.1	47.8	49.3
S	2.3	5.0	2.5	.2	.0		10.1	12.1	10.7	9.4	10.7	9.8
SW	.4	.5	.1	.0	.0		1.0	8.8	1.1	.6	2.0	.7
W	.1	.1	.0	.0	.0		.3	6.0	.1	.2	.6	.2
NW	.2	.1	*	.0	.0		.4	6.4	.3	.1	.7	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.6	1.0	.9	1.4
TOT OBS	2562	6302	2032	107	2	11005		11.1	2266	3065	2663	3011
TOT PCT	23.3	57.3	18.5	1.0	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.1S 36.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	5.6	50.1	37.4	5.2	.1	.0	10.7	100.0	2266
06&09	1.0	4.5	48.2	41.1	5.0	.2	.0	11.3	100.0	3065
12&15	.9	5.3	44.3	43.8	5.5	.2	.0	11.4	100.0	2663
18&21	1.4	5.2	47.0	41.9	4.4	.2	.0	11.0	100.0	3011
TOT	135	562	5209	4533	548	18	0	11.1		11005
PCT	1.2	5.1	47.3	41.2	5.0	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.8	.2	*		2.6
NE	3.7	2.4	1.6	.3		3.1
E	12.0	11.0	9.8	2.0		3.6
SE	13.9	14.2	13.1	3.5		3.8
S	2.0	2.7	2.6	1.0		4.2
SW	.2	.2	.3	*		4.5
W	.0	*	*	.0		5.2
NW	.1	.1	.1	.0		3.2
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.2	*		2.0
TOT OBS	856	796	704	175	2531	3.7
TOT PCT	33.8	31.5	27.8	6.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	2.1	
NE	.0	.0	.0	.2	.4	.3	.1	.1	.0	*	6.9	
E	.0	.0	.3	1.5	2.4	1.6	.9	.1	.2	*	27.6	
SE	.2	*	.7	2.6	4.1	2.0	1.0	.4	*	*	33.6	
S	.1	*	.1	.6	1.1	.4	.3	.1	*	*	5.5	
SW	.0	.0	*	.0	.1	*	.0	.0	.0	.0	.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NW	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	*	.0	.0	*	.0	1.1	
TOT OBS	7	2	29	122	208	112	60	17	7	3	1964	2531
TOT PCT	.3	.1	1.1	4.8	8.2	4.4	2.4	.7	.3	.1	77.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.8	3.4	3.5	3.5	3.5	3.5	3.5	3.5
* OR >2000	6.3	7.5	7.7	7.7	7.8	7.8	7.8	7.8
* OR >1000	13.0	15.6	15.9	16.0	16.0	16.0	16.1	16.1
* OR >600	15.9	19.9	20.6	20.7	20.8	20.8	20.9	20.9
* OR >300	16.5	20.9	21.7	21.8	21.9	22.0	22.0	22.0
* OR >150	16.5	21.0	21.7	21.9	22.0	22.1	22.1	22.1
* OR > 0	16.6	21.2	22.0	22.1	22.3	22.3	22.4	22.4
TOTAL	421	538	559	562	566	567	568	568

TOTAL NUMBER OF OBS: 2538

PCT FREQ NH <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCU	TOTAL OBS
5.8	15.6	23.5	18.7	13.8	7.6	6.2	3.8	4.9 .2	2633

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.1S 36.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.1	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	.0	*	.1	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.0	.1	.0	*	.0	.0	.2	
	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
	PCP	.0	*	*	.1	*	*	.0	.0	.0	.0	.2	
1<2	NO PCP	.0	*	.0	.1	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	.1	.1	*	.0	.0	.0	.0	.3	
	PCP	.0	*	.2	.3	.2	*	.0	.0	.0	.0	.7	
2<5	NO PCP	.0	*	.3	.3	.1	.1	.0	.1	.0	*	.9	
	TOT %	.0	*	.5	.6	.2	.2	.0	.1	.0	*	1.6	
	PCP	*	.1	.9	1.7	.5	.1	*	.0	.0	.0	3.4	
5<10	NO PCP	.2	.9	4.8	5.3	1.1	.3	*	.0	.0	.2	13.0	
	TOT %	.3	1.0	5.8	7.0	1.7	.4	.1	.0	.0	.2	16.4	
	PCP	*	.2	.9	1.3	.2	.1	.1	.0	.0	.0	2.8	
10+	NO PCP	1.7	6.4	26.6	34.3	7.2	.9	.1	.2	.0	1.1	78.5	
	TOT %	1.7	6.6	27.5	35.5	7.4	.9	.2	.2	.0	1.1	81.2	
	TOT OBS												3219
	TOT PCT	2.0	7.7	33.9	43.4	9.4	1.6	.2	.4	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
<1/2	4-10	.0	.0	*	*	.0	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	*	*	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.1	*	.1	.0	*	.0	.0	.2	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	*	.0	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
	0-3	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	*	.1	.1	*	.0	*	.0		.2	
	11-21	.0	*	*	.1	*	.0	.0	.0	.0		.1	
	22+	.0	*	*	*	*	*	.0	.0	.0		.1	
	TOT %	.0	*	*	.2	.1	*	.0	*	.0	.0	.4	
	0-3	.0	.0	.0	*	*	*	.0	*	.0	*	.1	
2<5	4-10	*	*	.2	.4	.1	.1	.0	*	.0		.9	
	11-21	.0	*	.2	.3	.1	*	*	*	.0		.7	
	22+	.0	*	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	.5	.8	.3	.1	*	.1	.0	*	1.9	
	0-3	*	.1	.1	.1	.1	*	*	.0	.0	.1	.7	
5<10	4-10	.1	.5	1.9	2.4	.6	.2	*	*	.0		5.7	
	11-21	.1	.2	2.1	2.9	.5	.1	.0	.0	.0		5.9	
	22+	.0	*	.2	.4	*	*	.0	.0	.0		.6	
	TOT %	.2	.9	4.3	5.8	1.3	.3	.1	*	.0	.1	13.0	
	0-3	.2	.4	1.2	1.2	.4	.2	*	*	.0	1.0	4.6	
10+	4-10	1.0	4.4	14.8	18.4	3.3	.5	.2	.2	.0		42.9	
	11-21	.3	1.2	10.6	17.7	3.8	.2	.0	*	.0		34.0	
	22+	*	*	.6	1.6	.7	*	.0	.0	.0		2.9	
	TOT %	1.5	6.1	27.2	38.8	8.4	.9	.2	.3	.0	1.0	84.4	
	TOT OBS												5938
	TOT PCT	1.8	7.1	32.1	45.7	10.1	1.4	.3	.4	.0	1.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.2	1.3	5.2	6.7	3.1	1.9	.6	.6	.0	20.4	79.6	638
06&09	.3	.0	.9	5.8	7.7	3.3	2.2	.6	.5	.0	21.4	78.6	635
12&15	.0	.1	.9	3.6	8.3	5.5	3.1	.1	.0	.4	22.1	77.9	674
18&21	.0	.0	1.4	4.2	9.4	5.1	2.0	1.2	.0	.2	23.4	76.6	661
TOT	7	2	29	122	210	112	60	17	7	4	570	2038	2608
PCT	.3	.1	1.1	4.7	8.1	4.3	2.3	.7	.3	.2	21.9	78.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.2	.8	2.2	12.6	83.6	1351
06&09	.2	.1	.2	1.4	14.9	83.3	1595
12&15	.3	.3	.4	2.3	11.5	85.2	1478
18&21	.1	.1	.3	1.5	12.5	85.5	1551
TOT	15	11	25	110	771	5043	5975
PCT	.3	.2	.4	1.8	12.9	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.8	8.3	12.9	78.8	618
06&09	.3	2.0	8.5	14.5	77.0	613
12&15	.0	1.5	5.7	17.0	77.3	664
18&21	.0	1.4	6.5	17.6	75.9	643
TOT	7	48	183	395	1960	2538
PCT	.3	1.9	7.2	15.6	77.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	*	.1	.1	.3	.1	.0	19	.7
80/84	.0	.0	.1	.3	5.4	9.0	2.9	1.2	506	18.8
75/79	.0	.0	.0	.9	8.7	36.4	19.2	7.2	1946	72.4
70/74	.0	.0	.0	.1	.6	.9	2.6	3.9	216	8.0
65/69	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	3	37	398	1252	665	334	2689	100.0
PCT	.0	.0	.1	1.4	14.8	46.6	24.7	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.3	.2	*	*	*	.0	.0	.1
1.0	1.8	7.4	7.0	1.1	.2	*	*	.0	.3
1.0	4.9	24.2	32.7	7.2	1.1	.2	.3	.0	.8
.1	.2	1.9	3.7	1.7	.4	.0	*	.0	*
.0	.0	.0	.1	*	.0	.0	.0	.0	.0
2.2	6.9	33.7	43.6	10.1	1.7	.3	.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	81	79	77	73	72	68	76.8	2264
06&09	87	82	80	77	73	71	67	76.8	3032
12&15	92	86	83	79	74	72	66	78.7	2598
18&21	91	85	82	78	74	72	66	78.2	2959
TOT	92	84	82	77	74	72	66	77.6	10853

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	9.5	45.8	30.0	14.4	79	660
06&09	.0	1.1	10.8	46.2	28.2	13.7	79	666
12&15	.0	2.2	16.4	45.0	22.7	13.8	78	740
18&21	.0	2.3	22.0	49.5	18.6	7.6	75	655
TOT	0	40	400	1267	676	338	78	2721

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.0	*	3	.0	.1
9/10	.0	.0	.0	*	.1	*	*	5	.0	.2
7/8	.0	.0	.0	.1	.1	.1	.0	10	.0	.4
6	.0	.0	.0	.1	.1	.2	.0	11	.0	.4
5	.0	.0	*	.2	.4	.2	.0	24	.0	.9
4	.0	.0	.0	.3	1.2	*	.0	41	.0	1.5
3	.0	.0	*	.4	1.1	.1	.0	43	.0	1.6
2	.0	.0	.2	2.0	1.9	.1	.0	112	.0	4.1
1	.0	.0	.4	4.6	2.2	.0	.0	193	.3	6.8
0	.0	.0	1.4	10.9	1.7	.0	.0	381	.2	13.8
-1	.0	.0	2.3	15.4	.9	.0	.0	507	.3	18.4
-2	.0	.1	3.3	13.2	.3	.0	.0	458	.3	16.6
-3	.0	.0	4.5	7.6	.1	.0	.0	332	.0	12.2
-4	.0	.3	4.8	4.7	*	.0	.0	268	.0	9.9
-5	.0	.2	3.8	2.4	.1	.0	.0	175	.0	6.4
-6	.0	.3	2.4	.3	.0	.0	.0	78	.0	2.9
-7/-8	.0	.4	1.4	.4	.0	.0	.0	60	.0	2.2
-9/-10	.0	.2	.1	*	.0	.0	.0	10	.0	.4
-11/-13	.1	.1	*	.0	.0	.0	.0	5	.0	.2
TOTAL	2	42	671	1699	279	21	2	2716	26	2690
PCT	.1	1.5	24.7	62.6	10.3	.8	.1	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.3	.7	.3	.0	.0	.0	1.3
3-4	.0	.4	.5	.1	.0	.0	.9
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.9	.1	.0	.0	2.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.3	2.5	.1	.0	.0	.0	3.0
3-4	.1	1.6	.7	*	.0	.0	2.5
5-6	.0	.1	.9	.0	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.5	1.9	*	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	1.8
1-2	.4	6.6	1.6	.0	.0	.0	8.6
3-4	.0	5.7	6.7	.1	.0	.0	12.5
5-6	.1	1.3	5.0	.7	.0	.0	7.2
7	.0	.2	2.7	.1	.0	.0	3.0
8-9	.0	.1	.6	.0	.0	.0	.7
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	15.4	16.9	.9	.0	.0	34.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4
1-2	.4	7.6	1.9	.0	.0	.0	9.9
3-4	.1	5.4	8.7	.1	.0	.0	14.3
5-6	*	.8	9.0	.8	.0	.0	10.7
7	.0	.2	2.6	1.5	.0	.0	4.3
8-9	.0	.2	1.5	.2	.0	.0	1.9
10-11	.0	*	.2	.1	*	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	15.5	23.9	2.9	*	.0	43.0

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6	*	*	.0	.0	.0	.0	.1
1-2	.2	.9	.3	.0	.0	.0	1.4	.1	.5	.0	.0	.0	.0	.6
3-4	.0	.7	1.9	.0	.0	.0	2.6	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.6	1.5	.2	.0	.0	2.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.7	.5	.0	.0	1.3	.0	.0	*	*	.0	.0	*
8-9	.0	.0	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.6	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	4.9	1.7	.1	.0	9.7	.1	.7	.3	.1	.0	.0	1.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.0	.0	.0	.0	.1	*	.3	.0	.0	.0	.0	.4	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	3.8	.0	.0	.0	.0	6.9	
1-2	1.8	19.0	4.2	.0	.0	.0	25.0	
3-4	.2	14.1	18.4	.3	.0	.0	33.0	
5-6	.2	3.1	16.6	1.7	.0	.0	21.6	
7	.0	.4	6.1	2.2	.0	.0	8.7	
8-9	.0	.3	2.5	.4	.0	.0	3.1	
10-11	.0	.1	.5	.7	.1	.0	1.4	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1016
TOT PCT	5.2	40.7	48.3	5.6	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	7.9	16.2	6.6	2.0	1.2	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	748	3
6-7	*	1.9	8.7	12.0	7.0	2.6	1.1	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	690	5
8-9	*	.3	1.7	4.2	3.8	2.1	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276	6
10-11	.0	.3	.4	.7	1.1	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	7
12-13	.0	.0	.4	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
>13	.0	.0	.0	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	1.3	1.6	3.7	2.2	1.3	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	4
TOTAL	73	245	635	530	315	142	71	19	14	0	1	0	0	0	0	0	0	0	0	2045	5
PCT	3.6	12.0	31.1	25.9	15.4	6.9	3.5	.9	.7	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1854-1973

AREA 0007 SALVADOR
14.1S 36.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	.0	1.2	.0	.0	.0	.0	96.0
NE	1.0	2.3	.2	.0	.0	.0	.0	3.5	5.6	.0	2.1	.0	.0	.0	.0	88.8
E	.9	3.6	.3	.0	.0	.0	.0	4.8	4.2	.0	1.0	.0	.0	.0	.0	89.9
SE	1.8	4.2	.4	.0	.0	.0	.0	6.4	4.2	.1	.7	.0	.0	.1	.0	88.6
S	3.5	5.7	.2	.0	.0	.0	.0	9.4	5.4	.0	.0	.0	.0	.6	.0	84.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	96.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	88.9
TOT PCT	1.6	3.9	.3	.0	.0	.0	.0	5.8	4.4	*	.8	.0	.1	*		88.9
TOT OBS:	3322															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	3.1	.6	.0	.0	.0	.0	5.0	4.1	.0	.7	.0	.0	.1		90.0
06&09	1.9	5.8	.3	.0	.0	.0	.0	8.0	5.2	.0	.9	.0	.0	.0		85.9
12&15	2.0	2.5	.2	.0	.0	.0	.0	4.7	4.4	.1	.5	.0	.1	.0		90.3
18&21	1.2	4.2	.1	.0	.0	.0	.0	5.5	3.7	.0	1.2	.0	.1	.0		89.5
TOT PCT	1.6	3.9	.3	.0	.0	.0	.0	5.8	4.4	*	.8	.0	.1	*		88.9
TOT OBS:	3361															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.1	.8	.2	.0	.0	.0		1.2	7.7	2.0	1.2	.6	.8	1.8	.9	1.6	1.0
NE	.4	3.7	1.3	*	.0	.0		5.5	8.6	7.3	5.1	5.6	4.8	7.1	4.2	5.4	4.5
E	1.2	14.3	12.0	1.5	*	.0		29.0	11.2	32.0	27.1	29.7	28.6	30.9	26.1	30.4	26.4
SE	1.0	18.9	26.4	4.9	.1	.0		51.3	13.1	44.6	53.3	52.4	55.8	47.9	53.4	48.6	55.4
S	.4	3.6	5.2	1.6	.1	.0		10.8	13.9	11.9	11.0	10.0	9.1	9.8	12.6	11.2	10.4
SW	.1	.5	.3	*	.0	.0		.9	10.3	.6	.7	.9	.3	1.4	1.0	1.1	.7
W	.1	.1	*	.0	.0	.0		.2	5.0	.0	.0	.1	.1	.3	.4	.2	.1
NW	*	.1	*	*	.0	.0		.2	7.9	*	.1	*	.2	.1	.2	.3	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.6	1.5	.6	.4	.6	1.2	1.1	1.3
TOT OBS	452	4468	4823	851	23	0	10617		12.2	1070	1236	2034	953	1022	1480	1842	980
TOT PCT	4.3	42.1	45.4	8.0	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.6	*	.0	.0		1.2	7.7	1.6	.7	1.3	1.4
NE	2.1	3.2	.2	*	.0		5.5	8.6	6.2	5.4	5.4	5.1
E	5.8	18.0	4.9	.3	.0		29.0	11.2	29.4	29.3	28.1	29.0
SE	6.4	29.8	14.1	1.0	*		51.3	13.1	49.3	53.5	51.1	51.0
S	1.5	5.3	3.5	.4	*		10.8	13.9	11.4	9.7	11.4	10.9
SW	.3	.4	.2	*	.0		.9	10.3	.7	.7	1.2	1.0
W	.1	*	*	.0	.0		.2	5.0	.0	.1	.3	.2
NW	.1	.1	*	.0	.0		.2	7.9	.1	.1	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.5	.6	1.0	1.2
TOT OBS	1902	6090	2439	183	3	10617		12.2	2306	2987	2502	2822
TOT PCT	17.9	57.4	23.0	1.7	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1854-1973

AREA 0007 SALVADOR
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	3.3	45.5	42.2	7.3	.1	.0	11.7	100.0	2306
06&09	.6	2.9	42.3	45.5	8.5	.2	.0	12.3	100.0	2987
12&15	1.0	3.4	39.3	47.7	8.3	.4	.0	12.5	100.0	2502
18&21	1.2	3.4	41.5	46.0	7.8	.1	.0	12.2	100.0	2822
TOT	109	343	4468	4823	851	23	0	12.2		10617
PCT	1.0	3.2	42.1	45.4	8.0	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.3	.3	.0		2.4
NE	3.1	2.2	1.8	.5		3.4
E	12.1	9.3	8.8	2.1		3.6
SE	15.4	15.6	14.3	2.7		3.8
S	2.6	2.7	3.0	.8		4.1
SW	.2	.2	.3	*		3.8
W	.0	*	*	.0		4.2
NW	*	.1	.1	.0		4.4
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.1	*		2.7
TOT OBS	940	836	781	169	2726	3.7
TOT PCT	34.5	30.7	28.7	6.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.1	*	*	.0	.0	.0	1.1	
NE	.0	.0	.2	.4	.8	.2	.1	.1	.0	.0	6.0	
E	.0	.0	.3	1.6	2.5	1.3	1.0	.2	.0	.1	25.3	
SE	.1	.0	.4	2.5	4.7	2.0	1.3	.3	*	*	36.6	
S	.1	.0	.1	.8	1.0	.4	.2	.0	.0	*	6.7	
SW	.0	.0	.0	.1	.1	.0	*	.0	.0	.0	.6	
W	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
NW	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.5	
TOT OBS	4	0	26	148	252	108	70	16	1	4	2097	2726
TOT PCT	.1	.0	1.0	5.4	9.2	4.0	2.6	.6	*	.1	76.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	5.9	7.0	7.2	7.2	7.2	7.3	7.3	7.3
* OR >1000	13.6	15.9	16.4	16.5	16.5	16.5	16.5	16.5
* OR >600	17.4	21.2	21.9	21.9	21.9	22.0	22.0	22.0
* OR >300	18.1	22.0	22.8	22.8	22.8	22.9	22.9	22.9
* OR >150	18.1	22.0	22.8	22.8	22.8	22.9	22.9	22.9
* OR > 0	18.2	22.1	22.9	23.0	23.0	23.0	23.1	23.1
TOTAL	498	606	627	629	629	630	632	632

TOTAL NUMBER OF OBS: 2740

PCT FREQ NH <5/8: 76.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	15.4	23.0	19.5	12.6	7.2	6.6	5.3	4.2 .1	2847

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
<1/2	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	.2	.2	*	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.0	.1	.3	.5	.2	.1	.0	.0	.0	.0	1.1	
	TOT %	.0	.2	.5	.6	.2	.1	.0	.0	.0	.0	1.6	
	PCP	*	.1	.8	1.5	.3	.0	.0	.0	.0	*	2.8	
5<10	NO PCP	.1	.9	3.6	5.5	1.3	.2	.0	*	.0	.0	11.6	
	TOT %	.2	1.0	4.3	7.0	1.7	.2	.0	*	.0	*	14.4	
	PCP	.0	.1	.6	1.3	.5	.0	.0	.0	.0	.0	2.5	
10+	NO PCP	1.1	6.4	26.8	38.5	7.0	.6	.1	.2	.0	.5	81.2	
	TOT %	1.1	6.5	27.4	39.9	7.5	.6	.1	.2	.0	.5	83.7	
	TOT OBS												3322
	TOT PCT	1.3	7.7	32.3	47.6	9.4	.9	.1	.2	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	*	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	*	*	*	*	.0	.0	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.1	*	.0	.0	.0	.0		.1	
	TOT %	.0	*	.1	.1	*	*	.0	.0	.0	.0	.2	
	0-3	.0	*	*	*	.0	*	.0	.0	.0	.0	.1	
2<5	4-10	.0	*	.2	.2	.1	*	.0	.0	.0		.6	
	11-21	.0	.1	.2	.4	.1	*	.0	.0	.0		.8	
	22+	.0	*	*	.1	*	.0	.0	.0	.0		.2	
	TOT %	.0	.1	.5	.8	.3	*	.0	.0	.0	.0	1.7	
	0-3	.0	*	.1	.1	*	.0	.0	.0	.0	*	.2	
5<10	4-10	.1	.4	1.7	2.2	.3	.1	.0	.0	.0		4.8	
	11-21	.1	.2	1.9	3.6	.8	.1	*	.0	.0		6.7	
	22+	.0	.0	.3	.5	.3	*	.0	*	.0		1.2	
	TOT %	.1	.6	4.0	6.4	1.4	.2	*	*	.0	*	12.9	
	0-3	.1	.4	1.0	.8	.2	.1	.1	*	.0	.7	3.4	
10+	4-10	.7	3.3	14.1	17.1	3.0	.4	.1	.1	.0		38.9	
	11-21	.2	1.2	11.3	20.5	4.1	.2	*	*	.0		37.6	
	22+	.0	*	.8	3.2	1.1	*	.0	.0	.0		5.2	
	TOT %	1.0	4.9	27.2	41.6	8.4	.8	.2	.1	.0	.7	85.0	
	TOT OBS												6063
	TOT PCT	1.2	5.7	31.8	49.0	10.2	1.1	.2	.1	.0	.7	100.0	

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.0	.6	4.5	8.9	3.9	2.6	.3	.0	.3	21.6	78.4	693
06&09	.0	.0	.7	6.5	8.5	2.6	3.0	.4	.1	.3	22.3	77.7	692
12&15	.0	.0	1.6	5.1	9.6	4.1	2.5	.8	.0	.0	23.7	76.3	729
18&21	.0	.0	.7	5.3	9.1	4.7	2.1	.7	.0	.0	22.6	77.4	704
TOT	4	0	26	150	255	108	72	16	1	4	636	2182	2818
PCT	.1	.0	.9	5.3	9.0	3.8	2.6	.6	*	.1	22.6	77.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.1	2.6	13.4	83.7	1435
06&09	.1	.0	.2	1.6	15.9	82.3	1651
12&15	.1	.1	.2	1.4	10.1	88.1	1437
18&21	.1	.1	.4	1.3	12.3	85.7	1579
TOT	7	5	14	104	794	5178	6102
PCT	.1	.1	.2	1.7	13.0	84.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.2	6.7	15.9	77.4	673
06&09	.0	.7	8.8	14.9	76.3	671
12&15	.0	1.7	7.6	16.4	76.1	714
18&21	.0	.9	7.2	16.3	76.5	682
TOT	4	31	207	435	2098	2740
PCT	.1	1.1	7.6	15.9	76.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	.3	.1	.0	.0	10	.4
80/84	.0	.0	*	.3	2.4	2.1	.7	.3	158	5.8
75/79	.0	.0	.0	1.2	13.4	40.2	14.4	5.2	2009	74.4
70/74	.0	.0	.0	.3	1.7	5.5	7.3	4.1	512	18.9
65/69	.0	.0	.0	.0	.0	.0	.3	.2	13	.5
TOTAL	0	0	1	50	479	1292	613	267	2702	100.0
PCT	.0	.0	*	1.9	17.7	47.8	22.7	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.1	.2	.0	.0	.0	.0	.0	.0
.2	.5	2.0	2.4	.5	.1	*	.0	.0	.0
.9	5.0	25.3	35.9	6.5	.3	*	.1	.0	.4
.2	1.0	5.0	9.3	2.8	.4	*	*	.0	.1
*	*	.0	.2	.2	.0	.0	.0	.0	.0
1.2	6.6	32.4	48.1	10.0	.8	.1	.1	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	79	78	75	72	70	67	75.2	2277
06&09	85	80	78	75	72	70	66	75.1	2944
12&15	90	83	81	77	73	71	66	77.1	2466
18&21	89	84	81	77	73	71	64	76.7	2762
TOT	90	82	80	76	72	70	64	76.0	10449

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.5	11.5	48.5	28.7	9.7	78	668
06&09	.0	.7	11.1	49.7	26.9	11.6	78	696
12&15	.0	2.7	22.8	44.4	19.6	10.4	76	693
18&21	.0	2.7	25.6	48.4	15.8	7.5	74	677
TOT	0	52	485	1306	622	269	77	2734

PERIOD: (PRIMARY) 1911-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	WD FOG
11/13	.0	.0	.0	*	*	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	3	.0	.1
7/8	.0	.0	.0	.0	.2	.1	11	.0	.4
6	.0	.0	.0	.2	.2	.1	12	.0	.4
5	.0	.0	*	.4	.3	.1	23	.0	.8
4	.0	.0	*	.4	.6	*	30	*	1.0
3	.0	.0	.3	.7	.3	*	37	.0	1.3
2	.0	.0	.6	2.7	.5	.0	108	.1	3.6
1	.0	.0	1.4	4.1	.5	.0	173	*	6.0
0	.0	.0	3.9	8.3	.3	.0	361	.1	12.5
-1	.0	*	8.3	10.2	*	.0	536	.3	18.3
-2	.0	.3	12.3	7.7	.1	.0	590	.2	20.2
-3	.0	.4	10.8	3.2	*	.0	414	.1	14.3
-4	.0	.9	7.7	1.3	.0	.0	284	.0	9.9
-5	.0	1.0	4.3	.6	.0	.0	170	.0	5.9
-6	*	.6	1.5	.1	.0	.0	66	.0	2.3
-7/-8	.1	.7	.7	*	.0	.0	45	.0	1.6
-9/-10	.1	.1	.1	*	.0	.0	11	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	4	.0	.1
TOTAL	5	121	1500	1152	88	14	2880	25	2855
PCT	.2	4.2	52.1	40.0	3.1	.5	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.4	.1	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.1	.0	.0	.0	1.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	2.5	.4	.0	.0	.0	2.9
3-4	.0	.6	1.2	.0	.0	.0	1.8
5-6	.0	.2	.5	.1	.0	.0	.7
7	.0	*	.3	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.7	2.3	.1	.0	.0	6.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.1	.0	.0	.0	1.3
1-2	.0	6.8	1.9	.0	.0	.0	8.7
3-4	.0	5.9	7.0	.2	.0	.0	13.1
5-6	.0	1.3	6.4	.6	.0	.0	8.3
7	.0	.6	1.8	.3	.0	.0	2.7
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	15.5	17.4	1.2	.0	.0	34.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.3	.0	.0	.0	1.5
1-2	.2	6.3	1.7	.0	.0	.0	8.2
3-4	.0	6.4	9.6	.5	.0	.0	16.5
5-6	.0	1.0	10.4	1.3	.0	.0	12.7
7	.0	.5	3.3	1.0	.1	.0	4.9
8-9	.0	.0	1.3	.5	.0	.0	1.7
10-11	.0	.1	.2	.7	.0	.0	1.0
12	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	15.4	26.9	4.5	.2	.0	47.4

PERIOD: (OVER-ALL) 1963-1973

JULY

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TABLE 18 (CONT)

14.1S 36.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.2	.2	.0	.0	.0	1.4	.0	.4	.1	.0	.0	.0	.5
3-4	.1	1.1	1.3	.1	.0	.0	2.7	*	*	.2	.0	.0	.0	.2
5-6	.0	.2	1.1	1.2	.0	.0	2.4	.0	.1	*	.1	.0	.0	.2
7	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	3.8	1.9	.0	.0	8.8	*	.6	.3	.1	.0	.0	1.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.0	.0	.4	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	2.9	.3	.0	.0	.0	4.8	
1-2	.3	17.7	4.4	.0	.0	.0	22.5	
3-4	.1	14.4	19.3	.9	.0	.0	34.6	
5-6	.0	3.0	18.4	3.2	.0	.0	24.6	
7	.0	1.1	6.3	1.6	.1	.0	9.1	
8-9	.0	.0	1.9	.6	.0	.0	2.5	
10-11	.0	.1	.2	.9	.0	.0	1.2	
12	.0	.0	.1	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1175
TOT PCT	2.0	39.1	50.9	7.8	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	6.3	15.2	6.5	2.6	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	752	4
6-7	.0	1.1	8.6	14.5	7.0	2.7	1.3	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	808	5
8-9	.0	.3	1.5	3.2	5.0	2.7	1.2	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	325	7
10-11	.0	.4	.4	.5	1.2	1.0	.2	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	7
12-13	.0	.0	.4	.3	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
>13	.0	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
INDET	.7	1.6	2.1	3.4	1.3	.4	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	4
TOTAL	53	214	628	634	391	187	73	26	22	5	0	0	0	0	0	0	0	0	0	2233	5
PCT	2.4	9.6	28.1	28.4	17.5	8.4	3.3	1.2	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	1.4	.0	.0	.0	.0	1.4	1.8	.0	.0	.0	.0	.0	.0	96.8
NE	1.3	1.7	.4	.0	.0	.0	.0	3.4	2.0	.0	.0	.0	.3	.3	.0	94.0
E	1.4	3.4	.3	.0	.0	.0	.0	5.0	4.9	.0	.2	.0	.2	.0	.0	89.8
SE	1.1	3.6	.6	.0	.0	.0	.0	5.2	4.7	.0	.2	.0	.1	.0	.0	89.8
S	1.1	3.6	.9	.0	.0	.0	.0	5.6	4.5	.0	.4	.0	.0	.0	.0	89.5
SW	14.5	3.6	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	.0	81.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	.0	81.8
TOT PCT	1.3	3.3	.5	.0	.0	.0	.0	5.0	4.4	.0	.2	.0	.1	*		90.3
TOT OBS:	3228															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	3.7	.4	.0	.0	.0	.0	5.4	3.7	.0	.1	.0	.0	.0		90.8
06&09	2.0	4.1	.4	.0	.0	.0	.0	6.3	6.3	.0	.0	.0	.2	.1		87.0
12&15	.9	2.0	.5	.0	.0	.0	.0	3.3	4.0	.0	.2	.0	.1	.0		92.4
18&21	1.1	3.4	.6	.0	.0	.0	.0	5.2	3.5	.0	.3	.0	.1	.0		90.9
TOT PCT	1.3	3.3	.5	.0	.0	.0	.0	5.0	4.4	.0	.2	.0	.1	*		90.3
TOT OBS:	3239															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.0	.4	*	.0	.0		1.6	8.2	1.3	1.2	1.4	1.4	1.7	1.7	2.3	1.4
NE	.9	6.1	2.2	.1	.0	.0		9.2	8.5	8.7	9.0	9.2	9.1	10.8	9.5	9.1	8.3
E	1.2	19.6	13.3	1.2	*	*		35.4	10.5	39.4	33.7	35.8	35.5	35.6	33.3	36.1	32.9
SE	1.0	19.8	20.6	3.3	.1	*		44.9	12.2	41.3	46.9	45.9	47.4	42.7	45.4	42.8	48.0
S	.4	3.0	3.1	.7	.1	.0		7.4	12.3	7.8	7.9	6.5	6.0	6.9	7.5	8.0	8.3
SW	.1	.4	.1	*	.0	.0		.6	7.7	.7	.3	.3	.2	1.2	1.2	.5	.3
W	*	.1	*	.0	.0	.0		.1	6.9	.1	.0	*	.1	.1	.5	.2	.1
NW	*	.1	*	.0	.0	.0		.1	6.1	.2	.1	.0	.0	.2	.3	.2	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.5	.8	.8	.2	.8	.7	.8	.6
TOT OBS	458	4956	3924	518	22	1	9876		11.1	1043	1105	1853	851	1058	1324	1797	845
TOT PCT	4.6	50.2	39.7	5.2	.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	.8	.1	.0	.0		1.6	8.2	1.3	1.4	1.7	2.0
NE	3.4	5.4	.4	*	.0		9.2	8.5	8.9	9.2	10.1	8.8
E	8.6	22.2	4.3	.2	*		35.4	10.5	36.4	35.7	34.3	35.1
SE	7.6	26.4	10.2	.7	*		44.9	12.2	44.2	46.3	44.2	44.5
S	1.6	3.8	1.7	.2	.0		7.4	12.3	7.9	6.4	7.2	8.1
SW	.3	.2	.1	.0	.0		.6	7.7	.5	.3	1.2	.4
W	.1	.1	.0	.0	.0		.1	6.9	.1	.1	.3	.2
NW	.1	.1	.0	.0	.0		.1	6.1	.2	.0	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.7	.6	.7	.7
TOT OBS	2275	5820	1661	119	1	9876		11.1	2148	2704	2382	2642
TOT PCT	23.0	58.9	16.8	1.2	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	4.3	54.5	35.8	4.6	.1	.0	10.7	100.0	2148
06&09	.6	3.9	50.7	38.9	5.4	.4	.0	11.1	100.0	2704
12&15	.7	3.7	46.4	43.1	5.8	.3	*	11.3	100.0	2382
18&21	.7	3.8	49.5	40.7	5.1	.1	.0	11.0	100.0	2642
TOT	67	388	4956	3924	518	22	1	11.1		9876
PCT	.7	3.9	50.2	39.7	5.2	.2	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.3	.2	.1		2.8
NE	4.1	2.6	1.7	.9		3.3
E	14.4	12.4	11.9	3.2		3.7
SE	12.6	12.9	12.4	3.0		3.9
S	1.6	1.5	1.9	.7		4.2
SW	*	.0	*	*		6.1
W	.0	.0	.0	*		8.0
NW	.1	*	.0	.0		1.2
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.1	.1		4.5
TOT OBS	897	787	749	217	2650	3.8
TOT PCT	33.8	29.7	28.3	8.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	*	.0	*	.1	.0	.0	.0	.0	1.3	
NE	*	.0	.1	.4	.7	.4	.1	*	.0	*	7.5	
E	.2	*	.5	1.6	3.9	2.0	.8	.1	.0	.2	32.8	
SE	*	*	.3	2.0	3.7	2.1	1.3	.2	.1	.1	31.0	
S	.0	*	*	.4	.5	.4	.4	.1	.1	.0	3.9	
SW	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
W	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
TOT OBS	7	3	25	117	238	133	69	11	4	9	2034	2650
TOT PCT	.3	.1	.9	4.4	9.0	5.0	2.6	.4	.2	.3	76.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.8	.8	.9	.9	.9	.9	.9	.9
= OR >3500	3.0	3.3	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	7.0	7.8	8.4	8.4	8.4	8.4	8.4	8.4
= OR >1000	14.4	16.5	17.3	17.4	17.4	17.4	17.4	17.4
= OR >600	17.7	20.7	21.8	21.8	21.9	21.9	21.9	21.9
= OR >300	18.2	21.5	22.7	22.7	22.8	22.8	22.8	22.8
= OR >150	18.3	21.6	22.8	22.8	22.9	22.9	22.9	22.9
= OR > 0	18.4	21.9	23.1	23.1	23.2	23.2	23.2	23.2
TOTAL	489	581	613	614	616	616	616	616

TOTAL NUMBER OF OBS: 2658

PCT FREQ NH <5/8: 76.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.1	17.2	21.0	20.0	12.2	6.8	6.2	4.6	5.8	.2	2782

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	*	.1	.4	.2	.0	.0	.0	.0	.0	*	.8	
	NO PCP	*	.2	.4	.2	.1	*	*	.0	.0	.0	1.0	
	TOT %	*	.4	.8	.4	.1	*	*	.0	.0	*	1.8	
5<10	PCP	.0	.1	.7	.9	.2	*	.0	.0	.0	.0	2.0	
	NO PCP	.1	1.4	4.4	4.0	.5	*	*	.0	.0	.0	10.5	
	TOT %	.1	1.6	5.1	4.9	.7	.1	*	.0	.0	.0	12.5	
10+	PCP	.0	.1	.9	1.0	.1	*	.0	.0	.0	*	2.1	
	NO PCP	1.5	8.7	33.4	34.0	5.0	.3	.1	.1	.0	.3	83.4	
	TOT %	1.5	8.8	34.2	35.0	5.1	.3	.1	.1	.0	.3	85.5	
	TOT OBS												3221
	TOT PCT	1.7	10.7	40.2	40.4	5.9	.4	.2	.1	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.3	.2	*	*	*	.0	.0		.7	
	11-21	.0	.1	.3	.3	*	.0	*	.0	.0		.7	
	22+	.0	.0	.1	.1	.1	.0	.0	.0	.0		.2	
	TOT %	*	.2	.7	.6	.1	*	*	.0	.0	*	1.7	
5<10	0-3	*	.2	.1	.1	*	*	.0	.0	.0	*	.4	
	4-10	.1	.8	2.0	1.6	.2	*	*	.0	.0		4.7	
	11-21	*	.3	1.7	2.5	.3	.0	.0	.0	.0		4.8	
	22+	.0	*	.1	.3	.1	.0	.0	.0	.0		.5	
	TOT %	.1	1.2	3.9	4.6	.6	.1	*	.0	.0	*	10.5	
10+	0-3	.2	.8	1.0	.7	.3	*	*	*	.0	.5	3.5	
	4-10	1.0	5.4	18.8	17.6	2.6	.3	.1	.1	.0		45.9	
	11-21	.3	2.0	12.7	17.5	2.9	*	*	*	.0		35.4	
	22+	*	.1	.5	1.7	.5	*	.0	.0	.0		2.8	
	TOT %	1.4	8.3	33.0	37.5	6.3	.4	.1	.1	.0	.5	87.6	
	TOT OBS												5787
	TOT PCT	1.6	9.7	37.6	42.7	7.1	.5	.2	.1	.0	.5	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

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14.05 36.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.2	.6	3.6	7.0	4.1	2.9	.0	.3	.6	19.7	80.3	660
06&09	.3	.0	1.0	5.1	10.0	3.4	2.7	.4	.0	.1	23.2	76.8	668
12&15	.1	.0	.8	4.6	9.7	6.3	2.3	.4	.3	.1	24.6	75.4	735
18&21	.1	.3	1.2	4.0	8.2	5.4	2.3	.7	.0	.4	22.7	77.3	683
TOT	7	3	25	119	240	133	70	11	4	9	621	2125	2746
PCT	.3	.1	.9	4.3	8.7	4.8	2.5	.4	.1	.3	22.6	77.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.1	.1	1.8	11.7	86.3	1362
06&09	.1	.0	.1	2.2	12.8	84.9	1527
12&15	.0	.1	.3	1.3	8.3	89.9	1438
18&21	.1	.0	.0	1.5	9.4	89.0	1491
TOT	2	3	8	99	614	5092	5818
PCT	*	.1	.1	1.7	10.6	87.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	1.3	5.9	14.9	79.2	631
06&09	.3	1.4	8.9	15.6	75.5	642
12&15	.1	1.1	6.8	18.7	74.5	718
18&21	.1	1.8	7.5	16.5	76.0	667
TOT	7	37	193	438	2027	2658
PCT	.3	1.4	7.3	16.5	76.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	*	.0	.0	1	*
85/89	.0	.0	.0	.1	.1	.2	.1	.0	12	.4
80/84	.0	.0	.0	.3	1.8	1.5	.6	.1	116	4.3
75/79	.0	.0	.0	1.2	13.7	37.6	11.7	3.0	1800	67.2
70/74	.0	.0	.0	.3	3.1	8.5	10.9	4.6	734	27.4
65/69	.0	.0	.0	.0	.0	*	.2	.3	15	.6
TOTAL	0	0	0	51	501	1284	625	217	2678	100.0
PCT	.0	.0	.0	1.9	18.7	47.9	23.3	8.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.0	.0	.0	.0	.0	.0	.0
.0	.1	.2	.1	.1	*	.0	.0	.0	.0
.1	.7	1.7	1.5	.3	.1	.0	*	.0	.0
1.3	7.3	28.4	26.5	3.2	.2	*	.1	.0	.2
.1	2.3	10.0	12.4	2.2	.1	*	.0	.0	.1
*	.1	.1	.2	.1	*	*	.0	.0	.0
1.6	10.4	40.4	40.8	5.9	.5	.1	.1	.0	.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	79	77	75	72	69	65	74.8	2133
06&09	90	80	77	75	72	70	66	74.6	2679
12&15	90	85	81	77	73	70	68	76.8	2327
18&21	90	84	81	76	73	71	65	76.3	2582
TOT	90	83	80	75	72	70	65	75.6	9721

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.4	13.7	49.2	27.5	8.2	77	657
06&09	.0	.6	13.1	45.0	30.2	11.0	78	655
12&15	.0	2.3	20.6	49.0	19.8	8.3	75	727
18&21	.0	3.3	26.7	48.3	16.6	5.0	74	658
TOT	0	52	502	1292	632	219	76	2697

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	*	*	.0	.0	.0	2	.0	.1
9/10	.0	.0	.0	.1	*	.2	.1	11	.0	.4
7/8	.0	.0	.1	.1	.2	*	*	14	.0	.5
6	.0	.0	.0	.2	.1	.0	*	11	.0	.4
5	.0	.0	.1	.5	.5	.1	.0	30	.0	1.1
4	.0	*	.4	.9	.6	.0	.0	52	.0	1.9
3	.0	*	.1	1.4	.4	.0	.0	53	.0	1.9
2	.0	*	1.1	2.5	.5	.0	.0	114	.0	4.2
1	.0	.0	2.3	4.7	.1	.0	.0	196	.0	7.2
0	.0	.1	6.0	7.8	.1	.0	.0	383	.0	14.0
-1	.0	.2	14.7	6.5	*	.0	.0	586	*	21.4
-2	.0	.4	14.1	2.3	.0	.0	.0	459	.0	16.8
-3	*	.8	10.2	.9	.0	.0	.0	326	.0	11.9
-4	*	1.3	7.0	.4	.0	.0	.0	237	.0	8.7
-5	.0	1.6	2.8	.1	.0	.0	.0	124	.0	4.5
-6	.0	1.3	1.4	.1	.0	.0	.0	77	.0	2.8
-7/-8	.1	1.0	.5	*	.0	.0	.0	42	.0	1.5
-9/-10	.1	.3	.1	.0	.0	.0	.0	14	.0	.5
-11/-13	.1	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	8	193	1666	781	73	8	5	2734	1	2733
PCT	.3	7.1	60.9	28.6	2.7	.3	.2	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.8	.2	.0	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.5	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	*	2.9	.3	.0	.0	.0	3.3
3-4	.2	2.4	2.4	.1	.0	.0	5.0
5-6	.0	.3	.6	.0	.0	.0	1.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.3	3.5	.2	.0	.0	10.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.3	12.1	1.5	.0	.0	.0	13.8
3-4	.1	8.5	10.0	.2	.0	.0	18.7
5-6	.0	1.6	7.0	.5	.0	.0	9.1
7	.0	.5	2.7	.4	.0	.0	3.7
8-9	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	23.9	21.5	1.3	.0	.0	47.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.3
1-2	.2	5.4	1.1	.0	.0	.0	6.6
3-4	.0	4.5	7.8	.3	.0	.0	12.5
5-6	.0	2.2	7.5	.8	.0	.0	10.4
7	.0	.3	2.6	.7	.0	.0	3.7
8-9	.0	.0	.8	.3	.0	.0	1.1
10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	13.2	19.8	2.3	.0	.0	36.0

PERIOD: (OVER-ALL) 1963-1973 AREA 0007 SALVADOR 14.0S 36.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.2	.5	.1	.0	.0	.0	.7
3-4	.0	.8	.9	.1	.0	.0	1.8
5-6	.0	.0	1.0	.1	.0	.0	1.0
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	2.3	.2	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	*	.0	.0	.0	.0	*
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	*	.0	.0	.0	.0	*

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.0	.0	.0	.0	.1	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	2.8	.0	.0	.0	.0	4.2	
1-2	.9	21.2	3.1	.0	.0	.0	25.2	
3-4	.3	16.9	21.1	.6	.0	.0	38.9	
5-6	.0	4.1	16.1	1.3	.0	.0	21.5	
7	.0	.9	5.9	1.1	.0	.0	7.9	
8-9	.0	.0	1.0	.4	.0	.0	1.5	
10-11	.0	.0	.1	.4	.0	.0	.5	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1158
TOT PCT	2.7	45.9	47.4	4.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	8.6	16.0	6.8	2.2	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	762	3
6-7	*	.7	10.7	13.0	6.4	2.2	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	756	5
8-9	.0	.4	1.2	4.6	6.1	1.8	1.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	6
10-11	.0	.5	.2	.4	1.1	1.2	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	7
12-13	.0	.0	.4	.2	.2	.1	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
>13	.0	.0	.0	.1	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
INDET	.4	1.8	3.1	1.8	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	4
TOTAL	30	259	685	582	375	132	75	23	9	1	0	0	0	0	0	0	0	0	0	2171	5
PCT	1.4	11.9	31.6	26.8	17.3	6.1	3.5	1.1	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.0	97.9
NE	.6	1.3	.1	.0	.0	.0	.0	2.1	2.4	.1	.4	.0	.3	.0	.0	94.7
E	1.1	1.5	.5	.0	.0	.0	.0	2.9	3.1	*	.3	.0	.2	.0	.0	93.5
SE	1.6	2.1	.8	.0	.0	.0	.0	4.3	3.6	.0	.0	.0	.0	.0	.0	92.1
S	5.4	2.8	1.6	.0	.0	.0	.0	8.7	5.6	.0	.0	.0	.0	.0	.0	85.6
SW	8.3	.0	8.3	.0	.0	.0	.0	8.3	10.4	.0	.0	.0	.0	.0	.0	81.3
W	25.8	.0	.0	.0	.0	.0	.0	25.8	.0	.0	.0	.0	12.9	.0	.0	61.3
NW	.0	.0	15.4	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0	.0	.0	84.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	94.1
TOT PCT	1.4	1.7	.6	.0	.0	.0	.0	3.5	3.2	.1	.2	.0	.2	.0	.0	92.9
TOT OBS:	3327															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	1.8	1.0	.7	.0	.0	.0	.0	3.3	2.5	.1	.1	.0	.1	.0	.0	93.9
06609	1.5	2.8	.9	.0	.0	.0	.0	4.7	3.7	.1	.2	.0	.1	.0	.0	91.2
12615	1.8	1.1	.6	.0	.0	.0	.0	3.4	3.3	.0	.1	.0	.2	.0	.0	92.9
18621	.6	1.7	.2	.0	.0	.0	.0	2.5	3.0	.0	.2	.0	.2	.0	.0	94.0
TOT PCT	1.4	1.6	.6	.0	.0	.0	.0	3.5	3.1	.1	.2	.0	.2	.0	.0	93.0
TOT OBS:	3367															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	1.6	1.0	*	.0	.0		2.8	9.7	4.0	1.6	2.3	1.6	3.4	2.7	3.8	1.9
NE	.6	11.2	5.8	.1	.0	.0		17.5	9.7	20.3	15.5	17.2	14.4	20.6	16.5	18.6	15.3
E	1.3	25.7	13.0	.5	.0	.0		40.5	9.8	41.5	39.9	40.5	42.2	41.2	39.6	40.1	39.6
SE	.9	17.4	12.4	1.4	*	.0		32.0	10.9	27.8	35.3	33.3	34.9	28.5	33.2	30.1	35.3
S	.4	2.6	2.0	.6	*	.0		5.6	11.9	5.4	6.0	5.3	5.7	5.0	6.0	5.3	5.9
SW	.1	.4	.2	*	.0	.0		.7	9.7	.1	1.0	.5	1.1	.3	.9	.7	1.1
W	*	.1	*	.0	.0	.0		.1	6.4	.0	.1	.1	.0	.5	.4	.1	.0
NW	.1	.1	*	.0	.0	.0		.2	6.7	.0	.2	.3	.0	.2	.3	.1	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.9	.5	.5	.1	.2	.4	1.0	.7
TOT OBS	376	5455	3176	241	6	0	9254		10.2	1083	1017	1766	774	1048	1135	1678	753
TOT PCT	4.1	58.9	34.3	2.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	1.9	.2	.0	.0		2.8	9.7	2.8	2.1	3.1	3.2
NE	3.9	12.5	1.1	.0	.0		17.5	9.7	18.0	16.3	18.5	17.6
E	9.2	28.3	2.9	.1	.0		40.5	9.8	40.7	41.0	40.4	40.0
SE	6.3	21.1	4.5	.2	.0		32.0	10.9	31.4	33.8	30.9	31.7
S	1.4	2.8	1.2	.1	*		5.6	11.9	5.7	5.5	5.5	5.5
SW	.3	.3	.1	*	.0		.7	9.7	.5	.7	.6	.8
W	.1	.1	.0	.0	.0		.1	6.4	*	.1	.4	.1
NW	.1	.1	*	.0	.0		.2	6.7	.1	.2	.2	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.7	.4	.3	.9
TOT OBS	2089	6187	936	40	2	9254		10.2	2100	2540	2183	2431
TOT PCT	22.6	66.9	10.1	.4	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	3.4	61.5	32.3	2.0	*	.0	9.9	100.0	2100
06&09	.4	2.9	59.9	33.9	2.9	*	.0	10.3	100.0	2540
12&15	.3	4.2	54.9	37.2	3.3	*	.0	10.5	100.0	2183
18&21	.9	3.5	59.3	33.9	2.2	.1	.0	10.0	100.0	2431
TOT	54	322	5455	3176	241	6	0	10.2		9254
PCT	.6	3.5	58.9	34.3	2.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.7	.7	.2		3.0
NE	11.2	5.4	4.1	.6		2.8
E	18.0	12.8	9.1	2.3		3.3
SE	10.6	8.2	6.9	1.9		3.5
S	.8	1.2	1.3	1.1		5.0
SW	*	*	.1	.1		6.3
W	.0	.0	*	.1		7.4
NW	.1	*	*	*		4.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.1	*		3.0
TOT OBS	1174	784	615	177	2750	3.3
TOT PCT	42.7	28.5	22.4	6.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	2.9	
NE	.0	*	.0	.8	1.2	.4	.3	.1	*	.0	18.5	
E	.1	.1	.3	2.0	2.6	1.4	.6	.1	.0	.0	35.2	
SE	.1	*	.1	1.2	2.0	1.4	.7	.1	.0	.1	21.8	
S	.0	.0	.1	.4	.5	.5	.3	.0	.0	*	2.4	
SW	.0	.0	*	*	.1	*	.0	*	.0	.0	.1	
W	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
NW	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.4	
TOT OBS	5	4	13	130	178	110	53	10	1	4	2242	2750
TOT PCT	.2	.1	.5	4.7	6.5	4.0	1.9	.4	*	.1	81.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.1	2.4	2.4	2.5	2.5	2.5	2.5	2.5
* OR >2000	4.8	5.9	6.2	6.4	6.4	6.4	6.4	6.4
* OR >1000	10.0	11.9	12.5	12.8	12.8	12.8	12.8	12.8
* OR >600	13.7	16.5	17.2	17.5	17.5	17.5	17.5	17.5
* OR >300	14.1	16.8	17.6	17.9	18.0	18.0	18.0	18.0
* OR >150	14.2	17.0	17.8	18.1	18.1	18.1	18.1	18.1
* OR > 0	14.2	17.1	18.0	18.3	18.3	18.3	18.3	18.3
TOTAL	395	474	498	506	507	507	507	507

TOTAL NUMBER OF OBS: 2772

PCT FREQ NH <5/8: 81.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.9	19.6	23.2	18.8	10.8	5.6	4.1	4.1	4.8 .1	2909

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	.0	.0	*	*	.1	.0	*	.0	.0	.0	.2	
	PCP	*	.1	*	*	.1	*	*	.0	.0	.0	.3	
1<2	NO PCP	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	.1	.1	*	*	.0	.0	.0	.4	
	PCP	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	.1	.2	.4	.4	.4	.0	.0	*	.0	.0	1.5	
	TOT %	.1	.2	.5	.6	.5	.0	.0	*	.0	.0	1.9	
	PCP	*	.2	.3	.5	.2	.0	*	*	.0	.0	1.3	
5<10	NO PCP	.3	1.3	4.1	3.3	1.5	.1	.0	*	.0	*	10.7	
	TOT %	.3	1.5	4.4	3.8	1.7	.1	*	*	.0	*	11.9	
	PCP	.0	.1	.6	.5	.1	.0	.0	.0	.0	*	1.4	
10+	NO PCP	2.9	18.4	35.4	23.3	3.2	.3	.1	.1	.0	.5	84.2	
	TOT %	2.9	18.6	36.0	23.9	3.3	.3	.1	.1	.0	.5	85.6	
	TOT OBS												3324
	TOT PCT	3.3	20.4	41.1	28.3	5.6	.4	.2	.2	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
<1/2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.1	*	*	.0	*	.0	.0		.1	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.1	.1	.1	.0	*	.0	.0	.0	.2	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	4-10	.0	*	.1	*	.1	*	.0	.0	.0		.2	
	11-21	*	*	.0	*	.0	.0	*	.0	.0		.1	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	.1	*	*	.0	.0	*	.4	
	0-3	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
2<5	4-10	*	.1	.3	.3	.2	.0	.0	.0	.0		.9	
	11-21	*	.1	.2	.2	.1	*	.0	*	.0		.6	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.2	.5	.6	.3	*	.0	*	.0	.0	1.6	
	0-3	*	*	.1	.1	.2	.0	*	.0	.0	*	.5	
5<10	4-10	.1	.8	2.4	1.6	.5	.1	*	*	.0		5.4	
	11-21	.1	.5	1.3	1.5	.4	*	.0	*	.0		3.7	
	22+	*	*	*	.4	.2	*	.0	.0	.0		.7	
	TOT %	.2	1.3	3.9	3.6	1.3	.1	*	*	.0	*	10.4	
	0-3	.1	.5	1.1	.5	.1	*	*	*	.0	.5	3.0	
10+	4-10	1.4	10.5	23.5	14.5	1.7	.3	.1	.1	.0		52.0	
	11-21	1.1	6.0	12.6	9.8	1.4	.1	.0	*	.0		31.0	
	22+	*	*	.3	.6	.3	*	.0	.0	.0		1.3	
	TOT %	2.6	17.0	37.5	25.4	3.6	.5	.1	.1	.0	.5	87.3	
	TOT OBS												5792
	TOT PCT	2.9	18.5	42.0	29.8	5.4	.7	.2	.1	.0	.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.1	.4	2.9	5.9	4.1	1.6	.0	.0	.0	15.2	84.8	691
06&09	.4	.1	.6	5.8	7.5	3.2	1.3	.7	.1	.3	20.1	79.9	691
12&15	.0	.1	.4	4.4	5.8	4.6	2.2	.7	.0	.1	18.3	81.7	743
18&21	.1	.1	.4	4.9	5.8	3.6	2.4	.1	.0	.1	17.6	82.4	754
TOT	5	4	13	130	180	111	54	11	1	4	513	2366	2879
PCT	.2	.1	.5	4.5	6.3	3.9	1.9	.4	*	.1	17.8	82.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.6	.8	2.2	11.8	84.5	1412
06&09	.1	.2	.3	1.4	12.2	85.8	1525
12&15	.0	.0	.6	1.8	8.4	89.2	1430
18&21	.1	.2	.4	1.3	9.4	88.6	1465
TOT	3	14	32	98	611	5074	5832
PCT	.1	.2	.5	1.7	10.5	87.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	.8	5.6	11.4	82.9	656
06&09	.4	1.3	8.8	12.7	78.4	667
12&15	.0	.6	6.9	11.9	81.2	724
18&21	.3	.8	7.4	11.4	81.1	725
TOT	6	24	200	329	2243	2772
PCT	.2	.9	7.2	11.9	80.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	4	.1
85/89	.0	.0	.0	.1	.4	.1	.2	*	22	.8
80/84	.0	.0	.1	.1	2.8	4.3	.8	.5	241	8.7
75/79	.0	.0	*	.7	9.0	41.4	17.5	4.0	2016	72.5
70/74	.0	.0	.0	.1	2.4	5.9	5.9	3.5	491	17.7
65/69	.0	.0	.0	.0	.0	.1	.1	.1	6	.2
TOTAL	0	0	4	28	409	1437	679	223	2780	100.0
PCT	.0	.0	.1	1.0	14.7	51.7	24.4	8.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	*	*	.1	.0	.0	.0	.0	.0
	.1	.1	.2	.2	.1	*	.0	*	.0	.0
	.7	1.9	3.5	2.0	.3	*	*	*	.0	.1
	2.0	15.1	30.6	21.2	2.7	.1	.1	.1	.0	.5
	.3	2.4	6.0	6.5	2.4	.1	*	.0	.0	*
	.0	.1	.1	.1	*	.0	.0	.0	.0	.0
	3.0	19.7	40.4	30.0	5.6	.3	.2	.2	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	80	78	76	73	70	67	75.5	2086
06&09	86	80	78	75	72	70	67	75.3	2508
12&15	94	85	82	77	73	71	65	77.7	2105
18&21	91	84	82	77	73	72	64	77.3	2356
TOT	94	84	81	76	73	71	64	76.4	9055

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.1	9.3	51.5	30.1	8.9	79	697
06&09	.0	1.0	7.2	47.3	33.7	10.8	79	677
12&15	.0	1.1	18.7	55.9	17.2	7.1	76	737
18&21	.0	2.3	23.1	51.8	17.4	5.3	75	683
TOT	0	32	410	1445	684	223	77	2794

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0007 SALVADOR
14.1S 36.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	*	.0	.0	*	2	.0	.1
11/13	.0	.0	.0	*	.0	.1	.1	6	.0	.2
9/10	.0	.0	*	*	*	.1	.1	8	.0	.3
7/8	.0	.0	.0	.3	.6	.3	*	33	.0	1.2
6	.0	.0	*	*	.3	*	.0	12	.0	.4
5	.0	.0	*	.3	.5	.1	.0	24	.0	.8
4	.0	.0	.3	.6	.9	.1	.0	55	.0	1.9
3	.0	.0	.3	2.3	1.0	.0	.0	99	.0	3.5
2	.0	.0	.8	4.1	.8	.0	.0	162	.0	5.7
1	.0	.1	1.8	7.1	.3	.0	.0	263	*	9.3
0	*	.1	6.9	10.0	.1	.0	.0	487	.0	17.2
-1	*	.1	10.7	8.2	.1	.0	.0	541	.1	19.0
-2	.0	.1	13.0	3.5	*	.0	.0	473	*	16.7
-3	.0	.5	8.1	1.4	.0	.0	.0	282	.0	10.0
-4	.0	.7	5.1	.6	.0	.0	.0	182	.0	6.4
-5	.0	.8	2.8	.5	.0	.0	.0	113	.0	4.0
-6	.0	.5	.6	.1	.0	.0	.0	34	.0	1.2
-7/-8	.0	.7	.5	.0	.0	.0	.0	33	.0	1.2
-9/-10	*	.4	.1	*	.0	.0	.0	14	.0	.5
-11/-13	.1	.1	.1	.0	.0	.0	.0	7	.0	.2
TOTAL	5	114	1449	1105	132	18	7	2830	5	2825
PCT	.2	4.0	51.2	39.0	4.7	.6	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.4	.0	.0	.0	.9
3-4	.0	.3	.7	.0	.0	.0	.9
5-6	.0	.1	.4	.1	.0	.0	.6
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.8	.1	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	*	5.8	1.2	.0	.0	.0	7.0
3-4	.0	3.1	3.2	.0	.0	.0	6.2
5-6	.0	2.3	3.1	.0	.0	.0	5.5
7	.0	*	1.3	.0	.0	.0	1.3
8-9	.0	*	.3	*	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	11.8	9.1	*	.0	.0	21.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.8
1-2	.6	10.7	2.9	.0	.0	.0	14.2
3-4	.0	9.3	8.2	.0	.0	.0	17.5
5-6	.0	2.4	5.8	.1	.0	.0	8.3
7	.2	.2	2.1	.3	.0	.0	2.8
8-9	.0	.1	.6	.2	.0	.0	.9
10-11	.0	.1	.1	.0	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	23.3	19.9	.6	.0	.0	44.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.7	.0	.0	.0	.0	.7
1-2	.2	5.4	1.8	.0	.0	.0	7.4
3-4	.2	5.0	5.0	.2	.0	.0	10.4
5-6	.0	2.1	3.9	.1	.0	.0	6.2
7	.1	.1	1.2	.3	.0	.0	1.6
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	*	*	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	13.3	12.3	1.0	.0	.0	27.0

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0007 SALVADOR 14.1S 36.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.1	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
3-4	.0	1.0	.8	.0	.0	.0	1.8	.0	.0	*	.0	.0	.0	*
5-6	.0	.1	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.4	.3	.0	.0	3.6	.0	.2	.1	.0	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.0	.0	.0	.2	.0	*	.1	.0	.0	.0	.1	99.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.5	2.0	.0	.0	.0	.0	2.5	
1-2	.9	23.1	6.5	.0	.0	.0	30.6	
3-4	.2	18.6	17.8	.2	.0	.0	36.9	
5-6	.0	7.0	13.5	.4	.0	.0	20.9	
7	.2	.3	5.2	.7	.0	.0	6.4	
8-9	.0	.2	1.3	.7	.0	.0	2.2	
10-11	.0	.1	.2	.1	.0	.0	.3	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1227
TOT PCT	1.9	51.3	44.7	2.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.1	18.5	9.1	2.2	.4	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	936	3
6-7	*	.7	10.0	12.5	5.7	1.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	699	5
8-9	.0	.1	2.4	4.0	3.6	1.7	.4	.3	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	282	6
10-11	.0	.3	.7	.5	.6	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	6
12-13	.0	.0	.3	*	.1	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
>13	.0	.0	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
INDET	.8	2.0	3.5	2.1	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	4
TOTAL	36	296	795	638	304	118	44	12	6	0	0	1	0	0	0	0	0	0	0	2250	4
PCT	1.6	13.2	35.3	28.4	13.5	5.2	2.0	.5	.3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0007 SALVADOR
14.05 36.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.4	1.0	.0	.0	.0	.0	.0	2.4	3.0	.5	.7	.0	.8	.0		92.6
NE	.2	1.1	.2	.0	.0	.0	.0	1.5	2.3	.1	.6	.0	*	.0		95.5
E	.9	1.3	.4	.0	.0	.0	.0	2.5	1.8	.1	.4	.0	.1	.1		95.0
SE	1.8	2.5	.5	.0	.0	.0	.0	4.7	4.0	.2	.1	.0	.1	.0		90.9
S	2.2	4.2	3.6	.0	.0	.0	.0	9.9	6.0	.0	.8	.0	.6	.0		82.7
SW	19.1	.0	2.2	.0	.0	.0	.0	21.3	2.2	.0	.0	.0	.0	.0		76.4
W	7.7	.0	7.7	.0	.0	.0	.0	15.4	23.1	.0	.0	.0	.0	.0		61.5
NW	14.3	14.3	.0	.0	.0	.0	.0	28.6	2.4	.0	.0	.0	.0	.0		69.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0		90.5
TOT PCT	1.1	1.6	.5	.0	.0	.0	.0	3.1	2.6	.1	.4	.0	.2	*		93.5
TOT OBS:	3323															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.4	1.3	.5	.0	.0	.0	.0	2.9	2.9	.4	.1	.0	.1	.0		93.6
06609	1.0	2.2	1.0	.0	.0	.0	.0	4.1	2.6	.2	.5	.0	.1	.0		92.5
12615	1.3	1.4	.2	.0	.0	.0	.0	3.0	2.3	.0	.3	.0	.2	.0		94.1
18621	.9	1.7	.5	.0	.0	.0	.0	3.1	2.7	.0	.7	.0	.2	.1		93.1
TOT PCT	1.2	1.6	.5	.0	.0	.0	.0	3.3	2.6	.1	.4	.0	.2	*		93.4
TOT OBS:	3375															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.1	2.9	.1	*	.0		6.4	10.8	5.7	4.4	4.8	5.3	8.7	7.4	8.1	6.4
NE	1.0	16.8	10.5	.2	*	.0		28.5	10.0	30.2	27.2	27.9	26.6	30.2	28.7	29.6	26.7
E	1.6	24.9	12.1	.4	*	.0		38.9	9.6	39.3	40.2	40.4	39.6	37.6	37.4	37.6	39.0
SE	.6	11.6	6.9	1.1	*	*		20.3	10.8	18.9	23.0	21.1	23.4	17.0	19.8	18.3	23.0
S	.2	1.4	1.6	.6	.1	*		3.8	13.7	4.2	3.8	4.0	2.9	4.2	3.5	4.4	2.8
SW	.1	.3	.1	.1	*	.0		.7	9.1	.6	.2	.4	.5	.9	1.5	.7	.5
W	*	.2	*	*	.0	.0		.2	7.7	.2	.1	.2	.1	.1	.5	.2	.3
NW	*	.3	.1	*	.0	.0		.4	8.0	.2	*	.2	.5	.7	.6	.4	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	.8	1.0	1.2	1.1	.6	.7	.6	1.0
TOT OBS	455	5652	3300	236	10	1	9654		10.1	1088	1061	1810	848	1085	1222	1740	800
TOT PCT	4.7	58.5	34.2	2.4	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	4.2	.8	*	.0		6.4	10.8	5.1	4.9	8.0	7.6
NE	6.0	20.2	2.3	*	.0		28.5	10.0	28.7	27.5	29.4	28.7
E	9.5	26.8	2.5	*	.0		38.9	9.6	39.8	40.1	37.5	38.1
SE	4.2	13.1	2.7	.2	*		20.3	10.8	20.9	21.8	18.5	19.8
S	.8	1.7	1.2	.1	*		3.8	13.7	4.0	3.6	3.9	3.9
SW	.3	.2	.1	*	.0		.7	9.1	.4	.4	1.2	.6
W	.1	.1	*	.0	.0		.2	7.7	.2	.1	.3	.2
NW	.2	.2	*	*	.0		.4	8.0	.1	.3	.7	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	.9	1.1	.6	.7
TOT OBS	2250	6417	939	46	2	9654		10.1	2149	2658	2307	2540
TOT PCT	23.3	66.5	9.7	.5	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	3.4	60.4	33.0	2.2	*	*	10.0	100.0	2149
06&09	1.1	3.3	58.8	33.9	2.7	.1	.0	10.1	100.0	2658
12&15	.6	4.2	55.9	36.3	2.8	.1	.0	10.3	100.0	2307
18&21	.7	4.6	59.1	33.5	2.0	.1	.0	9.9	100.0	2540
TOT	83	372	5652	3300	236	10	1	10.1		9654
PCT	.9	3.9	58.5	34.2	2.4	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.2	2.0	.7		4.2
NE	13.5	10.2	6.7	1.5		3.2
E	15.0	13.8	8.7	1.6		3.3
SE	6.2	5.0	4.6	2.0		3.9
S	.6	.6	1.2	1.3		5.7
SW	.1	*	.1	.1		6.0
W	.0	.0	.1	*		7.2
NW	.0	.0	*	.1		7.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.2	.0		3.2
TOT OBS	980	845	624	196	2645	3.6
TOT PCT	37.1	31.9	23.6	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	*	.3	.5	.2	.3	.1	*	*	4.8	
NE	.1	.0	.1	.8	2.1	1.2	.4	.1	*	*	27.1	
E	*	.0	.1	1.5	2.7	1.2	.9	.1	.1	.0	32.5	
SE	*	.1	.2	1.2	1.7	.9	.5	.1	.0	.0	19.3	
S	*	.0	.1	.3	.7	.4	.2	.1	.0	.0	1.8	
SW	.0	.0	.0	*	*	.1	.1	.0	.0	.0	.1	
W	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
NW	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.4	
TOT OBS	6	3	19	110	205	104	60	13	4	2	2119	2645
TOT PCT	.2	.1	.7	4.2	7.8	3.9	2.3	.5	.2	.1	80.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.5	.6	.7	.7	.7	.7	.7	.7
* OR >3500	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	5.6	6.5	6.9	7.0	7.0	7.0	7.0	7.0
* OR >1000	12.2	14.2	14.8	14.9	15.0	15.0	15.0	15.0
* OR >600	15.5	18.2	18.8	19.1	19.1	19.1	19.1	19.1
* OR >300	15.8	18.7	19.5	19.7	19.7	19.8	19.8	19.8
* OR >150	15.9	18.8	19.6	19.8	19.9	19.9	19.9	19.9
* OR > 0	16.0	19.0	19.8	20.0	20.1	20.1	20.2	20.2
TOTAL	427	507	528	534	535	536	537	537

TOTAL NUMBER OF OBS: 2664

PCT FREQ NH <5/8: 79.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	18.0	25.2	19.8	10.4	4.8	5.9	4.4	5.3 *	2798

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.1	
	PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	.1	
	TOT %	.0	*	.1	*	*	.0	.0	*	.0	.0	.2	
	PCP	.0	*	*	*	*	.0	.0	.0	.0	*	.2	
1<2	NO PCP	*	.0	.1	.0	.0	.0	*	*	.0	*	.2	
	TOT %	*	*	.1	*	*	.0	*	*	.0	.1	.4	
	PCP	.1	.0	.1	.2	.1	.1	*	.0	.0	.0	.5	
2<5	NO PCP	.1	.5	.4	.2	.1	.0	.0	.0	.0	.0	1.2	
	TOT %	.1	.5	.5	.4	.1	.1	*	.0	.0	.0	1.7	
	PCP	*	.2	.4	.4	.2	*	*	.1	.0	.0	1.3	
5<10	NO PCP	.8	3.1	4.0	2.0	.6	.1	.1	.1	.0	*	10.8	
	TOT %	.8	3.3	4.5	2.3	.9	.2	.1	.1	.0	*	12.1	
	PCP	.1	.3	.3	.2	*	.1	.0	.0	.0	.0	1.0	
10+	NO PCP	5.3	26.8	34.0	14.7	2.7	.4	*	.1	.0	.5	84.6	
	TOT %	5.4	27.1	34.4	14.9	2.7	.5	*	.1	.0	.5	85.6	
	TOT OBS												3320
	TOT PCT	6.3	30.8	39.6	17.7	3.8	.7	.2	.3	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	*	.0	.0	*	
	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	*	*	*	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.1	*	.0	.0	*	.0	.0	.3	
	0-3	*	*	*	*	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.0	*	.1	*	*	.0	*	*	.0		.2	
	11-21	.0	*	*	.1	*	.0	*	*	.0		.2	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	*	.0	*	*	.0	.1	.5	
	0-3	*	.0	*	.1	.0	*	.0	*	.0	*	.2	
2<5	4-10	.1	.3	.3	.2	.1	*	*	.0	.0		1.0	
	11-21	*	.1	.2	.2	.1	*	.0	.0	.0		.6	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	TOT %	.1	.4	.5	.5	.2	*	*	*	.0	*	1.8	
	0-3	*	.1	.1	.1	.0	*	*	*	.0	.1	.4	
5<10	4-10	.3	1.6	2.4	1.1	.3	*	.1	.1	.0		5.9	
	11-21	.4	1.2	1.1	.8	.3	*	.0	.0	.0		3.8	
	22+	.0	.0	*	.3	.1	.0	.0	.0	.0		.5	
	TOT %	.6	2.8	3.7	2.2	.7	.1	.1	.1	.0	.1	10.5	
	0-3	.2	.9	1.2	.4	.2	.1	*	*	.0	.6	3.7	
10+	4-10	2.6	15.6	23.4	10.1	1.2	.2	.1	.1	.0		53.3	
	11-21	2.3	9.7	11.2	4.9	1.0	.1	*	*	.0		29.2	
	22+	.1	.1	.1	.1	.3	*	.0	.0	.0		.7	
	TOT %	5.2	26.3	36.0	15.5	2.6	.5	.2	.2	.0	.6	86.9	
	TOT OBS												5755
	TOT PCT	6.0	29.7	40.5	18.4	3.5	.6	.3	.3	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.0	.4	4.4	6.1	4.1	1.9	.4	.1	.0	17.9	82.1	675
06&09	.0	.0	.7	4.3	9.0	3.1	2.2	.3	.0	.0	19.8	80.2	668
12&15	.1	.1	.6	4.1	8.5	4.0	2.7	.4	.1	.0	20.8	79.2	702
18&21	.4	.3	1.0	3.1	7.3	4.0	2.1	.7	.3	.3	19.4	80.6	717
TOT	6	3	19	110	213	106	62	13	4	2	538	2224	2762
PCT	.2	.1	.7	4.0	7.7	3.8	2.2	.5	.1	.1	19.5	80.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.7	.7	2.0	11.3	85.4	1349
06&09	.0	.1	.3	2.0	12.8	84.8	1519
12&15	.1	.2	.5	1.2	8.6	89.4	1460
18&21	.1	.1	.4	2.0	9.9	87.4	1479
TOT	2	15	26	106	620	5038	5807
PCT	*	.3	.4	1.8	10.7	86.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	.8	6.7	12.6	80.7	644
06&09	.0	.8	7.0	14.7	78.3	640
12&15	.1	1.0	6.3	15.3	78.5	687
18&21	.4	1.7	6.2	14.3	79.5	693
TOT	6	29	174	379	2111	2664
PCT	.2	1.1	6.5	14.2	79.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.1	.0	.0	4	.1
85/89	.0	.0	.0	.4	.7	.5	.3	*	56	2.0
80/84	.0	.0	.0	.2	4.1	10.5	3.9	1.0	558	19.8
75/79	.0	.0	.0	.2	3.3	34.4	25.1	9.1	2035	72.1
70/74	.0	.0	.0	.0	.4	1.1	2.2	2.4	169	6.0
TOTAL	0	0	0	27	240	1316	885	354	2822	100.0
PCT	.0	.0	.0	1.0	8.5	46.6	31.4	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.1	*	.0	.0	.0	.0	.0	.0
.1	.6	1.2	.2	*	.0	.0	.0	.0	.0
2.0	7.8	7.1	2.4	.2	.1	*	.0	.0	.1
4.1	21.8	29.3	13.2	2.5	.5	.1	.3	.0	.4
.1	.6	2.0	2.0	.8	.2	.1	.1	.0	.1
6.4	30.8	39.6	17.7	3.5	.7	.2	.4	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	81	79	77	74	72	64	76.8	2142
06&09	87	81	80	77	73	72	64	76.6	2643
12&15	90	86	84	79	75	73	70	79.2	2228
18&21	92	87	84	78	75	72	66	78.7	2470
TOT	95	85	82	78	74	72	64	77.8	9483

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.6	3.3	40.1	42.5	13.6	81	704
06&09	.0	.1	2.4	41.6	39.5	16.4	82	697
12&15	.0	1.6	12.7	52.9	22.0	10.7	78	763
18&21	.0	1.6	15.2	50.4	22.8	10.0	77	698
TOT	0	28	243	1328	901	362	79	2862

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	*	.1	5	.0	.2
9/10	.0	.0	.0	.1	*	.1	.2	.1	16	.0	.6
7/8	.0	.0	.0	.1	*	.2	.6	.1	27	.0	.9
6	.0	.0	.0	*	.2	.4	.3	.0	29	.0	1.0
5	.0	.0	.0	.1	.2	1.3	.2	.0	52	.0	1.8
4	.0	.0	.0	.1	.6	1.4	.2	*	68	.0	2.4
3	.0	.0	.0	.2	1.4	2.4	.1	.0	119	.0	4.1
2	.0	.0	.0	.2	4.2	2.9	.0	.0	209	.1	7.2
1	.0	.0	.1	.7	8.5	1.6	.0	.0	312	.1	10.7
0	.0	.0	.0	2.1	15.6	.7	.0	.0	529	.1	18.2
-1	.0	.0	*	4.4	16.1	.3	.0	.0	601	.1	20.8
-2	.0	.0	*	6.6	7.7	.2	.0	.0	417	.0	14.5
-3	.0	.0	.1	4.1	3.1	*	.0	.0	209	.0	7.3
-4	.0	.0	.1	3.8	1.0	*	.0	.0	141	*	4.9
-5	.0	.0	.3	1.9	.3	.0	.0	.0	75	.0	2.6
-6	.0	.0	.2	.7	.1	.0	.0	.0	29	.0	1.0
-7/-8	.0	.0	.5	.3	.1	.0	.0	.0	24	.0	.8
-9/-10	*	.0	*	.1	.1	.0	.0	.0	8	.0	.3
-11/-13	.1	*	*	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	4	1	41	736	1704	336	47	8	2877	14	2863
PCT	.1	*	1.4	25.6	59.2	11.7	1.6	.3	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.1	1.3	.4	.0	.0	.0	1.8
3-4	.0	.8	2.1	.1	.0	.0	2.9
5-6	.0	.2	1.5	.1	.0	.0	1.8
7	.0	.1	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.6	4.4	.2	.1	.0	7.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.7
1-2	.3	9.3	1.6	.0	.0	.0	11.2
3-4	.3	8.3	7.6	.1	.0	.0	16.2
5-6	.0	1.3	5.5	.1	.0	.0	7.0
7	.0	.1	1.4	.0	.0	.0	1.5
8-9	.0	.0	.0	.1	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	20.2	16.2	.3	*	.0	37.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.1	.0	.0	.0	.8
1-2	.5	12.1	2.4	.0	.0	.0	15.0
3-4	.0	7.9	5.9	.1	.0	.0	13.9
5-6	.0	.8	4.7	.2	.0	.0	5.7
7	.0	.2	.7	.0	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	21.7	13.9	.4	.0	.0	36.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.5
1-2	.4	5.3	.8	.0	.0	.0	6.5
3-4	.1	2.9	2.7	.0	.0	.0	5.8
5-6	.0	.7	1.3	.0	.0	.0	2.0
7	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.5	5.0	.1	.0	.0	15.2

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0007 SALVADOR
14.0S 36.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.3	.2	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.3	.4	.1	.0	.0	.7	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.1	.3	.0	.0	2.1	.0	*	.1	.0	.0	.0	.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.1	.0	.0	.0	.1	.0	.1	*	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.0	.0	.0	.1	.0	.1	*	.0	.0	.0	.1	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	2.6	.3	.0	.0	.0	4.8	
1-2	1.7	28.0	5.4	.0	.0	.0	35.0	
3-4	.4	19.9	18.4	.3	.0	.0	38.9	
5-6	.0	3.4	13.2	.5	.0	.0	17.1	
7	.0	.6	2.6	.1	.0	.0	3.3	
8-9	.0	.0	.3	.4	.1	.0	.7	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1073
TOT PCT	3.9	54.3	40.4	1.3	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	11.1	21.3	7.7	1.7	.5	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	968	3
6-7	.1	1.3	10.7	13.1	5.1	1.2	.4	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	705	5
8-9	.0	.4	2.9	4.1	2.7	.9	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	5
10-11	.0	.2	.5	.9	.7	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	6
12-13	.0	.0	.3	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
>13	.0	.0	.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
INDET	1.4	1.8	2.9	1.9	.3	.1	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	188	3
TOTAL	61	326	852	618	243	70	31	5	2	0	1	0	0	0	0	0	0	0	0	2209	4
PCT	2.8	14.8	38.6	28.0	11.0	3.2	1.4	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0007 SALVADOR
14.0S 36.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.5	2.4	1.1	.0	.0	.0	.0	8.9	2.4	3.3	.3	.0	.6		.0	84.9
NE	2.3	1.8	.6	.0	.0	.0	.0	4.4	2.4	1.3	.6	.0	.2		.0	91.1
E	1.6	2.3	.8	.0	.0	.0	.0	4.7	1.9	.6	.0	.0	.0		.0	92.8
SE	6.8	3.9	2.3	.0	.0	.0	.0	12.4	3.6	.9	.1	.0	.0		.0	82.9
S	11.9	5.1	5.7	.0	.0	.0	.0	21.7	10.3	1.2	.3	.0	.0		.0	66.5
SW	24.8	13.9	1.0	.0	.0	.0	.0	39.6	12.9	4.0	.0	.0	.0		.0	47.5
W	7.1	16.1	5.4	.0	.0	.0	.0	28.6	.0	7.1	.0	.0	.0		.0	64.3
NW	20.8	10.4	1.3	.0	.0	.0	.0	32.5	5.8	.0	.0	.0	.0		.0	61.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0		.0	95.8
TOT PCT	3.8	2.6	1.2	.0	.0	.0	.0	7.5	2.9	1.3	.3	.0	.1		.0	88.0
TOT OBS:	3175															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.2	1.8	2.2	.0	.0	.0	.0	7.7	2.9	2.7	.3	.0	.1		.0	86.3
06&09	4.5	3.7	1.0	.0	.0	.0	.0	9.2	3.5	2.1	.5	.0	.2		.0	84.8
12&15	3.8	1.5	1.0	.0	.0	.0	.0	6.0	2.7	.0	.1	.0	.0		.0	91.2
18&21	3.6	3.7	1.1	.0	.0	.0	.0	8.3	3.0	.2	.2	.0	.1		.0	88.1
TOT PCT	4.0	2.7	1.3	.0	.0	.0	.0	7.8	3.0	1.2	.3	.0	.1		.0	87.6
TOT OBS:	3221															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.2	4.7	.5	*	.0		9.7	11.7	8.9	6.3	7.7	8.5	13.4	11.4	12.1	8.7
NE	.7	18.5	14.2	.7	.0	.0		34.2	10.8	35.1	31.8	33.8	34.9	37.5	33.4	34.8	32.8
E	1.2	21.8	12.2	.4	*	.0		35.6	9.9	34.5	41.0	37.5	36.1	30.2	34.4	34.1	36.8
SE	.4	7.7	5.5	.3	*	.0		14.0	10.5	13.6	16.2	14.8	15.9	10.5	14.1	12.0	16.1
S	.2	1.5	1.7	.3	*	.0		3.6	12.6	6.3	2.9	3.4	2.6	4.8	2.7	3.6	3.3
SW	.1	.3	.3	*	*	.0		.7	10.8	.3	.5	.6	.4	1.3	1.4	.6	.5
W	.1	.2	.1	*	.0	.0		.3	7.4	.3	.2	.3	.3	.3	.4	.4	.1
NW	.1	.5	.3	*	.0	.0		.8	9.9	.2	.4	.6	.7	1.5	1.2	1.4	.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	.8	.7	1.3	.7	.5	1.1	1.1	1.0
TOT OBS	386	5307	3776	229	5	0	9703		10.5	970	1097	1827	862	980	1323	1781	863
TOT PCT	4.0	54.7	38.9	2.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	6.2	1.8	.1	.0		9.7	11.7	7.5	8.0	12.2	11.0
NE	6.1	23.7	4.4	*	.0		34.2	10.8	33.3	34.1	35.1	34.1
E	8.2	24.5	2.9	.1	*		35.6	9.9	38.0	37.0	32.6	35.0
SE	3.1	9.1	1.7	*	*		14.0	10.5	15.0	15.2	12.6	13.3
S	.6	2.1	.8	.1	.0		3.6	12.6	4.5	3.1	3.6	3.5
SW	.2	.4	.1	*	.0		.7	10.8	.4	.6	1.3	.6
W	.2	.1	*	.0	.0		.3	7.4	.3	.3	.4	.3
NW	.3	.5	.1	*	.0		.8	9.9	.3	.6	1.3	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	.8	1.1	.8	1.1
TOT OBS	2065	6461	1142	34	1	9703		10.5	2067	2689	2303	2644
TOT PCT	21.3	66.6	11.8	.4	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.8	3.2	56.9	36.9	2.2	.0	.0	10.3	100.0	2067
06&09	1.1	2.8	54.2	39.4	2.5	.0	.0	10.5	100.0	2689
12&15	.8	3.2	52.0	41.3	2.5	.1	.0	10.7	100.0	2303
18&21	1.1	3.0	55.8	37.9	2.2	.1	.0	10.3	100.0	2644
TOT	93	293	5307	3776	229	5	0	10.5		9703
PCT	1.0	3.0	54.7	38.9	2.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	2.2	4.0	2.9		5.2
NE	12.1	10.5	10.9	4.5		4.0
E	12.0	8.9	8.2	3.3		3.8
SE	3.2	2.1	3.2	2.4		4.6
S	.5	.5	1.7	2.4		6.3
SW	.1	*	.3	.3		6.3
W	.0	.0	.2	.2		7.3
NW	*	.0	.6	.4		7.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.2	.0		3.5
TOT OBS	782	634	763	425	2604	4.3
TOT PCT	30.0	24.3	29.3	16.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.3	.6	1.4	1.0	.5	.2	.0	*	6.9	
NE	*	.1	.4	2.0	3.3	1.5	.7	.4	.1	.1	29.4	
E	.1	*	*	1.5	2.8	1.1	.7	.3	*	*	25.8	
SE	.1	.0	.2	.7	1.1	1.0	.4	.1	*	.1	7.1	
S	.1	.0	.1	.7	.9	.9	.2	*	.1	.1	2.0	
SW	*	.0	.0	*	.2	.1	.0	.1	.0	.0	.3	
W	*	.0	*	*	.1	.1	*	.0	.0	.0	.1	
NW	.0	.0	*	.1	.2	.2	.1	*	*	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	*	.0	.0	*	.0	.0	.5	
TOT OBS	15	3	27	152	259	153	66	31	7	8	1883	2604
TOT PCT	.6	.1	1.0	5.8	9.9	5.9	2.5	1.2	.3	.3	72.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.5	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.5	1.6	1.8	1.8	1.8	1.8	1.8
* OR >3500	2.9	3.7	4.0	4.4	4.5	4.5	4.5	4.5
* OR >2000	7.4	9.1	9.9	10.4	10.5	10.5	10.5	10.5
* OR >1000	15.3	18.8	19.9	20.4	20.6	20.6	20.6	20.6
* OR >600	19.0	24.3	25.6	26.1	26.4	26.4	26.4	26.4
* OR >300	19.5	25.2	26.6	27.2	27.4	27.4	27.4	27.5
* OR >150	19.5	25.3	26.7	27.3	27.5	27.5	27.5	27.6
* OR > 0	19.7	25.5	27.1	27.7	28.0	28.1	28.1	28.2
TOTAL	518	670	711	727	736	738	739	740

TOTAL NUMBER OF OBS: 2626

PCT FREQ NH <5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.2	15.9	23.0	16.6	10.8	5.9	6.3	5.8	10.2	.4	2778

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	.0	*	*	.0	.0	.0	.0	.2	
<1/2	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	*	*	.0	*	*	.0	.0	.0	.0	.2	
	PCP	*	.0	.1	.1	*	*	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	*	.0	.0	.0	.0	.3	
	PCP	.1	*	.1	.1	.1	*	.0	.0	.0	.0	.4	
1<2	NO PCP	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.6	
	PCP	.1	.1	.2	.3	.3	.0	.0	.1	.0	.0	1.0	
2<5	NO PCP	.3	.3	.2	.0	.0	.0	.0	*	.0	.0	.8	
	TOT %	.4	.4	.4	.3	.3	.0	.0	.1	.0	.0	1.9	
	PCP	.6	.9	.7	.6	.4	.1	.1	.3	.0	.0	3.7	
5<10	NO PCP	1.7	4.0	2.8	1.1	.9	.1	.1	.3	.0	.1	11.0	
	TOT %	2.2	4.9	3.5	1.7	1.3	.3	.1	.6	.0	.1	14.7	
	PCP	.2	.5	.5	.3	.2	.1	.1	.1	.0	.0	2.0	
10+	NO PCP	8.3	31.6	27.1	8.4	3.1	.4	.2	.5	.0	.7	80.4	
	TOT %	8.5	32.1	27.6	8.7	3.3	.4	.3	.6	.0	.7	82.3	
	TOT OBS												3171
	TOT PCT	11.4	37.7	31.8	10.8	5.1	.8	.4	1.2	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	*	.0	*	.0	.0	.0	.0		.1	
	11-21	*	.0	*	.0	.0	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.0	*	*	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	*	.0	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	*	*	*	.0	.0	.0		.1	
	22+	*	.0	.0	*	*	.0	.0	.0	.0		.1	
	TOT %	*	*	.1	.1	*	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	*	*	.0	.0	.0	*	
1<2	4-10	*	.1	.1	*	.1	.0	.0	.0	.0		.3	
	11-21	*	*	*	*	*	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.1	.1	*	*	.0	.0	.0	.6	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.1	.2	.3	.2	.1	*	*	*	.0		1.0	
	11-21	.2	.1	.2	.2	.3	*	.0	*	.0		1.1	
	22+	.0	*	.0	*	.1	*	.0	.0	.0		.2	
	TOT %	.3	.4	.5	.4	.5	*	*	.1	.0	.1	2.3	
	0-3	.1	.1	.1	.1	.1	*	*	*	.0	.1	.6	
5<10	4-10	.6	1.6	1.8	.6	.3	.1	.1	.2	.0		5.3	
	11-21	1.1	1.9	1.0	.8	.5	.1	*	.1	.0		5.5	
	22+	.1	.1	*	.1	*	.0	.0	*	.0		.3	
	TOT %	1.8	3.7	3.0	1.5	.9	.2	.1	.4	.0	.1	11.8	
	0-3	.3	.5	.9	.3	.1	*	*	*	.0	.7	2.8	
10+	4-10	3.8	18.1	20.7	5.5	1.2	.2	.1	.4	.0		50.0	
	11-21	3.9	13.1	9.1	3.3	1.3	.1	.1	.1	.0		31.1	
	22+	.3	.5	.1	.1	.1	*	.0	.0	.0		1.1	
	TOT %	8.3	32.2	30.8	9.3	2.6	.4	.2	.5	.0	.7	84.9	
	TOT OBS												5500
	TOT PCT	10.5	36.4	34.6	11.3	4.2	.7	.4	.9	.0	.9	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 AN. HGT	TOTAL OBS
00&03	.6	.2	.8	5.8	10.5	5.5	1.1	.9	.0	.2	25.3	74.7	659
06&09	1.1	.0	1.1	6.4	10.1	6.4	2.1	1.2	.0	.5	28.9	71.1	654
12&15	.3	.1	1.2	5.6	9.5	5.8	3.0	1.4	.6	.1	27.7	72.3	692
18&21	.4	.1	1.0	4.7	9.1	5.9	3.9	1.1	.4	.4	27.0	73.0	725
TOT	16	3	27	153	267	161	70	32	7	8	744	1986	2730
PCT	.6	.1	1.0	5.6	9.8	5.9	2.6	1.2	.3	.3	27.3	72.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.5	2.3	11.9	84.9	1290
06&09	.3	.3	1.0	2.1	14.1	82.3	1473
12&15	.2	.2	.5	2.4	10.8	86.0	1311
18&21	.0	.3	.5	2.7	10.7	85.8	1473
TOT	8	15	34	132	660	4698	5547
PCT	.1	.3	.6	2.4	11.9	84.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	2.1	9.0	17.2	73.8	633
06&09	1.3	2.7	11.6	18.9	69.5	619
12&15	.3	1.9	8.9	19.6	71.5	677
18&21	.4	1.7	8.6	19.5	71.9	697
TOT	17	55	249	495	1882	2626
PCT	.6	2.1	9.5	18.8	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.3	*	*	*	13	.5
85/89	.0	.0	.0	.2	1.2	.8	.2	.1	64	2.5
80/84	.0	.0	.0	.3	5.9	18.1	7.0	1.6	856	33.0
75/79	.0	.0	.0	.1	2.7	24.6	24.6	8.1	1562	60.1
70/74	.0	.0	.0	.0	.1	.3	1.1	2.5	102	3.9
TOTAL	0	0	0	18	263	1138	857	321	2597	100.0
PCT	.0	.0	.0	.7	10.1	43.8	33.0	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.3	.1	*	.0	.0	.0	.0	.0	.0
.4	1.2	.5	.1	.1	*	.0	.0	.0	*
4.5	14.8	10.0	2.4	.5	.1	.2	.4	.0	.2
5.5	21.1	21.1	7.2	3.4	.3	.2	.8	.0	.5
.2	.6	1.0	.8	.9	.1	.1	.1	.0	.0
10.7	38.0	32.7	10.7	4.9	.6	.5	1.3	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	82	80	78	75	72	68	77.9	2067
06&09	88	82	81	78	74	72	67	77.7	2653
12&15	91	87	85	80	76	73	67	80.2	2200
18&21	93	89	85	80	76	73	68	79.8	2540
TOT	93	86	83	79	75	73	67	78.9	9460

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	4.5	40.9	41.5	12.9	81	643
06&09	.0	.2	2.1	37.7	43.6	16.4	82	652
12&15	.0	1.2	14.8	49.6	23.9	10.5	78	657
18&21	.0	1.2	18.2	46.5	23.8	10.3	77	677
TOT	0	18	263	1150	869	329	79	2629

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
11/13	.0	.0	.0	.0	.1	*	.2	*	9	.0	.3
9/10	.0	.0	.0	.0	*	.3	.3	.0	17	.0	.6
7/8	.0	.0	.0	.1	.1	.7	.1	.0	27	.0	1.0
6	.0	.0	.0	.0	.2	.3	.1	.0	17	.0	.6
5	.0	.0	*	.1	.8	.5	.0	.0	41	.0	1.5
4	.0	.0	.0	.3	1.9	.4	.0	.0	72	.0	2.6
3	.0	.0	.1	1.0	2.6	.2	.0	.0	107	*	3.9
2	.0	.0	.3	3.0	5.1	.1	.0	.0	233	*	8.4
1	.0	.0	.2	7.6	3.8	*	.0	.0	320	*	11.6
0	.0	.0	.7	15.8	2.7	.0	.0	.0	529	.1	19.1
-1	.0	.0	1.1	14.7	.7	.0	.0	.0	453	*	16.4
-2	.0	.1	2.7	12.1	.4	.0	.0	.0	420	.0	15.3
-3	.0	.0	2.5	5.2	*	.0	.0	.0	214	.0	7.8
-4	.0	.1	2.4	2.9	.0	.0	.0	.0	150	.0	5.4
-5	*	*	1.6	.8	.0	.0	.0	.0	69	.0	2.5
-6	.0	.3	1.3	.3	.0	.0	.0	.0	50	.0	1.8
-7/-8	*	.2	.3	*	.0	.0	.0	.0	16	*	.5
-9/-10	.0	.1	.1	.0	.0	.0	.0	.0	6	.0	.2
-11/-13	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	22	366	1761	513	68	20	1	2753	8	2745
PCT	.1	.8	13.3	64.0	18.6	2.5	.7	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	2.4	1.4	.0	.0	.0	3.8
3-4	.0	.9	2.7	.1	.0	.0	3.7
5-6	.0	.4	1.7	.4	.0	.0	2.6
7	.0	.0	.6	.1	.0	.0	.6
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	6.7	.6	.0	.0	11.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.7	.0	.0	.0	.0	.7
1-2	.2	10.2	2.5	.0	.0	.0	12.9
3-4	.0	8.5	10.2	.2	.0	.0	18.9
5-6	.0	.6	5.8	.4	.0	.0	6.8
7	.0	.0	1.6	.5	.0	.0	2.1
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	20.0	20.4	1.2	.0	.0	41.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.1
1-2	.3	8.8	2.5	.0	.0	.0	11.6
3-4	.0	6.0	5.2	.0	.0	.0	11.2
5-6	.0	1.2	2.4	.0	.0	.0	3.6
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	16.9	10.7	.1	.0	.0	28.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.2	3.2	.6	.0	.0	.0	4.0
3-4	.0	1.2	2.1	.0	.0	.0	3.3
5-6	.0	.1	1.0	.0	.0	.0	1.2
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.0	4.7	.0	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1973 AREA 0007 SALVADOR

TABLE 18 (CONT) 14.0S 36.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4	*	.2	.0	.0	.0	.0	.2
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.9	2.0	.2	.0	.0	3.2	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.4	.8	.0	.0	.0	1.2	.0	.0	*	.1	.0	.0	.1
7	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.5	.3	.0	.0	6.1	*	.3	.4	.1	.0	.0	.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.4	.1	.0	.0	.0	.5	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.1	.0	.0	.0	.2	.0	.6	.3	.0	.0	.0	.8	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	2.7	.1	.0	.0	.0	4.3	
1-2	1.1	26.1	7.8	.0	.0	.0	34.9	
3-4	.0	17.4	22.5	.5	.0	.0	40.3	
5-6	.0	2.7	11.6	.9	.0	.0	15.3	
7	.0	.0	3.6	.6	.0	.0	4.2	
8-9	.0	.0	.6	.2	.0	.0	.7	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1238
TOT PCT	2.5	48.9	46.3	2.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	13.2	21.5	7.7	2.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1018	3
6-7	*	1.2	10.9	13.2	4.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	665	5
8-9	.0	.3	2.1	3.6	2.2	.4	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	5
10-11	.0	.2	.4	.6	.3	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	5
12-13	.0	.0	.3	.3	.3	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
>13	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	1.2	2.2	4.2	1.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	3
TOTAL	65	368	854	591	231	38	11	1	8	0	0	0	0	0	0	0	0	0	0	2167	4
PCT	3.0	17.0	39.4	27.3	10.7	1.8	.5	*	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 38.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	3.5	2.0	.8	.0	.0	.0	.0	6.0	2.8	1.3	.3	.0	.5	.0		89.1
NE	.9	.7	.7	.0	.0	.0	.0	2.3	1.6	.4	.3	.0	.1	.0		95.3
E	1.2	1.1	.5	.0	.0	.0	.0	2.6	2.7	.6	.5	.0	.1	.0		93.6
SE	2.5	1.6	1.4	.0	.0	.0	.0	5.2	3.8	.0	.0	.0	.2	.0		90.8
S	9.3	5.7	3.9	.0	.0	.0	.0	18.8	8.4	.0	.0	.0	1.2	2.4		69.3
SW	13.0	5.8	18.8	.0	.0	.0	.0	37.7	13.0	.0	.0	.0	.0	.0		49.3
W	21.1	.0	.0	.0	.0	.0	.0	21.1	15.8	.0	.0	.0	.0	.0		63.2
NW	18.9	2.5	3.1	.0	.0	.0	.0	24.5	11.9	2.5	1.3	.0	.0	.0		59.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	10.0	10.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0		80.0
TOT PCT	2.1	1.3	1.0	.0	.0	.0	.0	4.2	2.8	.5	.3	.0	.2	.1		91.9
TOT OBS:	2966															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.4	1.1	1.0	.0	.0	.0	.0	3.3	2.5	1.4	.1	.0	.3	.0		92.4
06&09	2.8	1.9	1.1	.0	.0	.0	.0	5.7	2.9	.9	.5	.0	.3	.0		89.7
12&15	2.0	1.4	1.1	.0	.0	.0	.0	4.3	3.0	.0	.3	.0	.1	.1		92.1
18&21	2.3	1.3	.9	.0	.0	.0	.0	4.3	2.7	.0	.4	.0	.0	.1		92.6
TOT PCT	2.1	1.4	1.0	.0	.0	.0	.0	4.4	2.8	.6	.3	.0	.2	.1		91.7
TOT OBS:	3022															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	4.9	4.9	.2	.0	.0		10.2	11.2	10.7	6.2	7.8	7.7	15.2	11.5	13.4	8.2
NE	1.0	20.5	13.4	.3	*	.0		35.3	10.2	36.1	32.7	34.3	35.4	39.7	34.6	37.0	32.3
E	1.3	22.2	11.0	.3	*	.0		34.9	9.6	36.0	39.5	37.9	37.5	28.6	33.6	31.3	35.3
SE	.7	8.0	4.5	.5	*	.0		13.8	10.2	12.2	16.4	14.9	14.8	10.8	13.6	11.5	17.1
S	.2	1.2	1.2	.5	*	.0		3.1	12.9	3.1	3.2	2.4	3.6	2.6	3.4	3.1	3.9
SW	.1	.4	.3	.1	.0	.0		.8	10.3	.3	.7	.9	.4	.5	.5	1.1	1.4
W	*	.3	.1	.0	.0	.0		.4	7.2	.2	.2	.3	.0	.3	.8	.5	.4
NW	.1	.6	.3	*	.0	.0		1.0	9.6	.9	.4	.7	.3	1.7	1.3	1.5	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.4	.7	.8	.4	.5	.8	.5	.6
TOT OBS	410	5333	3279	169	5	0	9196		10.1	947	1034	1718	822	942	1225	1699	809
TOT PCT	4.5	58.0	35.7	1.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	7.0	1.5	*	.0		10.2	11.2	8.3	7.8	13.1	11.7
NE	6.9	25.1	3.2	.1	.0		35.3	10.2	34.4	34.6	36.8	35.5
E	8.2	24.3	2.4	*	.0		34.9	9.6	37.8	37.8	31.4	32.6
SE	3.4	8.7	1.5	.1	.0		13.8	10.2	14.4	14.9	12.4	13.3
S	.7	1.4	.8	.1	.0		3.1	12.9	3.2	2.8	3.0	3.4
SW	.3	.4	.1	*	.0		.8	10.3	.5	.7	.5	1.2
W	.2	.1	*	.0	.0		.4	7.2	.2	.2	.6	.5
NW	.3	.6	.1	.0	.0		1.0	9.6	.6	.6	1.5	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.6	.7	.7	.6
TOT OBS	2057	6212	893	34	0	9196		10.1	1981	2540	2167	2508
TOT PCT	22.4	67.6	9.7	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0007 SALVADOR
14.0S 36.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.6	2.9	60.3	34.7	1.3	.2	.0	10.0	100.0	1981
06&09	.7	4.0	57.8	35.6	1.9	.0	.0	10.1	100.0	2340
12&15	.7	4.0	54.5	38.6	2.3	.0	.0	10.4	100.0	2167
18&21	.6	4.3	59.3	33.9	1.8	.1	.0	9.9	100.0	2308
TOT	57	353	5333	3279	169	5	0	10.1		9196
PCT	.6	3.8	58.0	35.7	1.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	2.5	3.9	2.8		4.9
NE	13.5	11.0	10.4	3.4		3.8
E	11.7	10.7	8.8	2.3		3.7
SE	2.8	3.0	4.3	1.3		4.4
S	.3	.5	.6	1.2		5.9
SW	.0	*	.2	.4		7.3
W	.0	*	.1	.1		6.9
NW	*	.1	.2	.8		6.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	*		3.8
TOT OBS	778	698	717	308	2501	4.1
TOT PCT	31.1	27.9	28.7	12.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	.7	2.1	.5	.2	.0	.0	.2	7.9	
NE	.0	.0	.1	1.2	3.1	1.2	.6	.1	*	.1	31.8	
E	.0	.1	.1	1.1	2.5	1.2	.5	.1	*	.1	27.6	
SE	*	.0	.1	.6	1.4	.8	.3	.1	.0	.0	8.0	
S	.0	.0	.1	.3	.3	.3	.2	*	.0	.0	1.2	
SW	.0	.0	.0	*	.3	*	.1	.0	.0	.0	.2	
W	.0	.0	*	.0	*	.0	.1	.0	.0	.0	.1	
NW	.0	.0	.1	.2	.4	*	.0	.0	*	*	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.2	
TOT OBS	1	3	22	108	255	103	53	9	3	9	1935	2501
TOT PCT	*	.1	.9	4.3	10.2	4.1	2.1	.4	.1	.4	77.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
* OR >3500	2.3	2.9	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	5.8	6.9	7.3	7.3	7.3	7.3	7.3	7.3
* OR >1000	13.9	16.8	17.3	17.4	17.5	17.5	17.5	17.5
* OR >600	17.0	21.0	21.7	21.7	21.9	21.9	21.9	21.9
* OR >300	17.5	21.7	22.5	22.7	22.8	22.8	22.8	22.8
* OR >150	17.6	21.9	22.7	22.8	23.0	23.0	23.0	23.0
* OR > 0	17.6	21.9	22.7	22.9	23.0	23.0	23.0	23.0
TOTAL	444	552	572	576	580	580	580	580

TOTAL NUMBER OF OBS: 2520

PCT FREQ NH <5/8: 77.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	18.4	25.1	17.1	10.5	6.2	5.3	4.5	7.2 .0	2667

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	*	*	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	*	.1	.0	.0	.0	.0	.0	.2	
	PCP	.1	.1	.1	.1	.1	.0	*	.1	.0	.0	.6	
2<5	NO PCP	*	.3	.1	.2	.4	*	.0	.0	.0	.0	1.0	
	TOT %	.1	.4	.2	.2	.4	*	*	.1	.0	.0	1.6	
	PCP	.3	.4	.3	.3	.2	.2	.0	.2	.0	*	1.8	
5<10	NO PCP	1.9	3.9	3.6	.9	.4	*	.0	.3	.0	*	11.1	
	TOT %	2.2	4.2	3.9	1.2	.6	.2	.0	.5	.0	.1	12.9	
	PCP	.3	.4	.4	.2	.3	.1	.0	.1	.0	*	1.8	
10+	NO PCP	9.3	33.1	28.7	9.5	1.5	.3	.1	.7	.0	.2	83.5	
	TOT %	9.6	33.5	29.1	9.8	1.7	.4	.1	.8	.0	.3	85.2	
	TOT OBS												2955
	TOT PCT	12.0	38.2	33.4	11.2	2.8	.6	.2	1.3	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	*	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	*	*	*	*	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	*	*	*	.0	.0	.0	.0	.0	.2	
	0-3	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
2<5	4-10	.1	.1	.1	.2	*	.0	*	*	.0		.6	
	11-21	.1	.2	*	.1	.2	.0	*	*	.0		.6	
	22+	.0	*	*	*	.1	*	.0	.0	.0		.2	
	TOT %	.2	.4	.2	.2	.3	*	*	*	.0	.0	1.5	
	0-3	*	.1	.1	*	*	*	.0	.0	.0	.1	.4	
5<10	4-10	.6	1.8	1.8	.6	.2	.1	.1	.2	.0		5.4	
	11-21	.9	1.6	1.1	.3	.2	.1	.0	.1	.0		4.4	
	22+	.1	.1	*	*	*	*	.0	*	.0		.3	
	TOT %	1.6	3.6	3.0	.9	.5	.2	.1	.3	.0	.1	10.4	
	0-3	.2	.9	1.2	.7	.2	.1	*	.1	.0	.5	3.9	
10+	4-10	4.8	19.8	20.3	6.2	.8	.3	.2	.5	.0		52.9	
	11-21	5.0	14.0	8.4	1.9	.6	.2	*	.1	.0		30.3	
	22+	.2	.3	.1	*	.1	.0	.0	*	.0		.7	
	TOT %	10.2	35.1	30.1	8.9	1.6	.5	.2	.8	.0	.5	87.8	
	TOT OBS												5164
	TOT PCT	12.0	39.2	33.5	10.0	2.4	.7	.3	1.2	.0	.6	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.2	.9	3.6	7.0	2.5	1.7	.6	.0	.8	17.5	82.5	639
06&09	.0	.0	.5	4.9	11.6	4.4	2.1	.2	.3	.0	23.9	76.1	614
12&15	.0	.4	.9	4.6	10.1	4.6	1.8	.1	.0	.4	22.9	77.1	681
18&21	.0	.1	1.2	3.7	10.5	4.7	3.0	.4	.1	.1	24.0	76.0	695
TOT	1	5	23	110	258	107	57	9	3	9	582	2047	2629
PCT	*	.2	.9	4.2	9.8	4.1	2.2	.3	.1	.3	22.1	77.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.2	1.2	11.3	87.1	1220
06&09	.0	.0	.3	1.5	11.7	86.5	1388
12&15	.0	.4	.2	1.5	9.9	88.0	1237
18&21	.1	.0	.1	1.7	9.7	88.4	1375
TOT	2	6	11	78	556	4567	5220
PCT	*	.1	.2	1.5	10.7	87.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.5	5.9	13.1	81.0	609
06&09	.0	.5	6.9	18.9	74.2	582
12&15	.0	1.7	7.8	16.1	76.1	664
18&21	.0	1.4	6.9	19.1	74.0	665
TOT	1	32	174	424	1922	2520
PCT	*	1.3	6.9	16.8	76.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.0	*	*	.0	.0	3	.1
90/94	.0	.0	*	*	.2	.1	*	.0	9	.4
85/89	.0	.0	.0	.4	2.0	1.4	.2	.1	102	4.1
80/84	.0	.0	.0	.2	7.4	28.8	10.7	2.4	1237	49.6
75/79	.0	.0	.0	.1	1.2	17.7	18.3	7.1	1108	44.4
70/74	.0	.0	.0	.0	.0	.1	.3	1.0	36	1.4
TOTAL	0	0	2	17	271	1200	738	267	2495	100.0
PCT	.0	.0	.1	.7	10.9	48.1	29.6	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	.0	.0	.0
.1	.2	.1	.0	.0	.0	.0	.0	.0	.0
.7	1.9	1.0	.3	*	.0	.0	*	.0	.0
6.5	21.1	16.4	4.8	.4	.1	*	.2	.0	.1
4.0	15.4	15.7	6.1	1.5	.4	.1	.8	.0	.2
.2	.2	.1	.3	.3	.1	*	.2	.0	.0
11.6	38.9	33.3	11.5	2.3	.6	.2	1.3	.0	.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	82	81	79	76	73	70	78.8	1974
06&09	90	83	82	79	75	73	70	78.6	2520
12&15	95	89	86	81	76	73	70	81.0	2098
18&21	97	90	86	80	76	73	72	80.7	2447
TOT	97	88	84	80	76	73	70	79.8	9039

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	3.1	45.1	39.5	12.1	81	612
06&09	.0	.2	2.7	43.1	40.4	13.7	81	627
12&15	.0	.6	16.4	51.3	23.5	8.1	77	639
18&21	.0	2.0	20.2	51.2	17.6	9.1	76	660
TOT	0	19	274	1212	761	272	79	2538

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
11/13	.0	.0	.0	.0	.1	.2	.1	8	.0	.3
9/10	.0	.0	*	.1	.1	.2	.0	12	.0	.5
7/8	.0	.0	.0	.1	.7	.3	.0	27	.0	1.0
6	.0	.0	*	.4	.6	*	.0	30	.0	1.1
5	.0	.0	.1	.6	1.2	.0	.0	48	.0	1.8
4	.0	*	.3	1.7	.9	*	.0	79	.0	3.0
3	.0	.0	.7	3.7	.4	.0	.0	126	.0	4.8
2	.0	.0	1.4	5.6	.2	.0	.0	193	.0	7.3
1	.0	.1	4.8	7.4	.2	.0	.0	331	.1	12.4
0	.0	.3	11.8	6.1	.1	.0	.0	481	.1	18.1
-1	.0	.3	14.7	2.8	.0	.0	.0	472	.1	17.8
-2	.0	.5	12.1	.9	.0	.0	.0	357	.1	13.4
-3	.0	.9	6.5	.3	.0	.0	.0	205	.0	7.8
-4	.0	1.4	3.9	.1	.0	.0	.0	141	.0	5.3
-5	.0	.9	1.3	.2	.0	.0	.0	64	.0	2.4
-6	*	.8	.4	.1	.0	.0	.0	35	.0	1.3
-7/-8	.1	.5	.2	.0	.0	.0	.0	22	.0	.8
-9/-10	.2	.1	.0	.0	.0	.0	.0	6	.0	.2
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	9	155	1541	796	116	19	7	2643	9	2634
PCT	.3	5.9	58.3	30.1	4.4	.7	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	3.0	.9	.0	.0	.0	4.0
3-4	.0	1.7	2.9	.0	.0	.0	4.6
5-6	.0	.1	2.4	.2	.0	.0	2.7
7	.0	.2	1.0	.1	.0	.0	1.2
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.1	7.5	.6	.0	.0	13.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4
1-2	*	10.7	3.9	.0	.0	.0	14.6
3-4	.1	7.4	7.1	.0	.0	.0	14.6
5-6	.0	.7	4.5	*	.0	.0	5.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	20.1	16.3	.2	.0	.0	36.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.1	.0	.0	.0	2.1
1-2	.5	12.9	1.7	.0	.0	.0	15.2
3-4	.0	7.4	3.9	.0	.0	.0	11.2
5-6	.0	1.3	2.2	.1	.0	.0	3.6
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.2	.2	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	23.6	8.6	.1	.0	.0	33.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	3.5	.5	.0	.0	.0	4.1
3-4	.0	2.6	1.4	*	.0	.0	4.0
5-6	.0	.1	.5	*	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.5	3.0	.2	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0007 SALVADOR

TABLE 18 (CONT) 14.0S 36.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.1	.5	.0	.0	.0	.7
3-4	.0	.6	.0	.2	.0	.0	.8
5-6	.0	.1	.2	.4	.0	.0	.7
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	1.0	1.0	.0	.0	3.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	*	.3	.1	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.3	.1	.0	.0	.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.1	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	*	.0	.0	.0	.0	*	
1-2	.1	.7	*	.0	.0	.0	.8	
3-4	.0	.3	.4	.0	.0	.0	.8	
5-6	.0	.2	.1	.0	.0	.0	.3	
7	.0	*	.1	.2	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.2	.7	.3	.0	.0	2.4	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	3.6	.1	.0	.0	.0	5.2	
1-2	1.2	31.0	7.5	.0	.0	.0	39.6	
3-4	.1	19.9	15.9	.4	.0	.0	36.3	
5-6	.0	2.7	9.8	.8	.0	.0	13.3	
7	.0	.2	2.5	.6	.0	.0	3.2	
8-9	.0	.3	1.1	.3	.0	.0	1.7	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1017
TOT PCT	2.8	57.6	37.2	2.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	14.5	22.5	8.4	1.5	.7	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1031	3
6-7	.0	1.7	12.7	10.3	2.9	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	598	4
8-9	*	.2	2.8	3.7	2.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	5
10-11	.0	.3	.5	.6	.2	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
12-13	.0	.0	.6	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
>13	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
INDET	.8	3.0	3.0	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	3
TOTAL	55	411	875	514	154	53	14	1	1	0	0	0	0	0	0	0	0	0	0	2078	4
PCT	2.6	19.8	42.1	24.7	7.4	2.6	.7	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.4	1.2	.7	.0	.0	.0	.0	4.3	2.4	1.5	.5	.0	.3		.0	91.1
NE	1.1	1.9	.4	.0	.0	.0	.0	3.5	2.5	.6	1.0	.0	.1		.1	92.3
E	1.1	2.7	.4	.0	.0	.0	.0	4.1	3.3	.4	.5	*	.1		*	91.5
SE	2.1	3.5	.8	.0	.0	.0	*	6.3	4.0	.4	.2	*	.1		*	89.0
S	4.1	4.7	1.7	.0	.0	.0	*	10.4	5.5	.3	.3	.0	.3		.2	83.0
SW	9.4	4.7	3.8	.0	.0	.0	.0	17.3	4.1	.5	.1	.0	.1		.0	78.2
W	12.5	3.8	2.8	.0	.0	.0	.0	18.2	4.6	1.7	.9	.0	1.1		.0	73.6
NW	7.3	3.4	1.9	.0	.0	.0	.0	12.6	3.5	1.0	.6	.0	.4		.0	81.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.2	2.9	.8	.0	.0	.0	.0	5.9	1.3	1.4	.0	.0	.4		.0	91.0
TOT PCT	1.7	2.9	.6	.0	.0	.0	*	5.2	3.5	.5	.5	*	.1		*	90.2
TOT OBS:	39277															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	2.7	.7	.0	.0	.0	.0	4.8	3.3	1.1	.3	.0	.1		*	90.3
06&09	1.9	3.7	.7	.0	.0	.0	.0	6.2	4.2	1.0	.6	.0	.2		*	88.0
12&15	1.9	2.5	.6	.0	.0	.0	.0	4.9	3.2	.1	.3	.0	.2		*	91.3
18&21	1.5	3.0	.5	.0	.0	.0	*	4.9	3.2	.1	.6	*	.1		*	91.0
TOT PCT	1.8	2.9	.6	.0	.0	.0	*	5.2	3.5	.5	.5	*	.1		*	90.2
TOT OBS:	39859															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	2.4	1.8	.1	*	.0		4.7	9.3	4.7	3.0	3.7	3.7	6.6	5.2	6.0	3.9
NE	.9	12.0	6.2	.2	*	.0		19.3	9.1	20.3	17.8	19.1	18.7	21.6	19.0	19.9	17.7
E	1.6	22.4	11.4	.6	*	*		36.0	9.8	36.7	36.9	37.1	37.2	34.8	34.4	35.3	35.6
SE	1.2	16.1	12.5	1.6	*	*		31.5	10.7	28.3	34.6	32.6	34.3	27.4	31.7	29.3	34.8
S	.4	2.5	2.4	.6	*	*		6.0	11.5	7.5	5.9	5.5	4.6	6.2	6.0	6.3	5.7
SW	.1	.4	.2	*	*	.0		.8	8.9	.8	.6	.6	.5	1.4	1.4	.9	.6
W	.1	.2	*	*	.0	.0		.3	6.8	.2	.1	.2	.1	.5	.6	.3	.2
NW	.1	.3	.1	*	.0	.0		.5	7.7	.3	.2	.3	.4	.9	.8	.7	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.2	.9	.9	.6	.7	1.0	1.3	1.1
TOT OBS							118491		10.2	12430	13292	22102	10652	12130	15959	21372	10554
TOT PCT	5.6	56.5	34.8	3.1	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	2.9	.5	*	.0		4.7	9.3	3.8	3.7	5.8	5.3
NE	5.0	12.9	1.4	*	.0		19.3	9.1	19.0	19.0	20.1	19.2
E	9.3	23.6	2.9	.1	*		36.0	9.8	36.8	37.1	34.6	35.4
SE	6.5	19.4	5.2	.3	*		31.5	10.7	31.5	33.1	29.8	31.1
S	1.3	3.1	1.4	.2	*		6.0	11.5	6.7	5.2	6.1	6.1
SW	.4	.4	.1	*	.0		.8	8.9	.7	.6	1.4	.8
W	.2	.1	*	.0	.0		.3	6.8	.2	.2	.6	.3
NW	.2	.2	*	*	.0		.5	7.7	.2	.3	.8	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.1	.8	.9	1.2
TOT OBS						118491		10.2	25722	32754	28089	31926
TOT PCT	25.2	62.5	11.7	.6	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	4.5	58.8	32.7	2.9	.1	*	10.0	100.0	25722
06&09	.8	3.9	56.6	35.2	3.3	.1	.0	10.3	100.0	32754
12&15	.9	5.2	53.5	37.0	3.4	.1	*	10.4	100.0	28089
18&21	1.2	4.8	57.0	34.0	2.8	.1	.0	10.0	100.0	31926
TOT								10.2		118491
PCT	1.0	4.6	56.5	34.8	3.1	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.4	1.6	.9		3.8
NE	8.5	6.4	5.3	1.4		3.4
E	13.6	11.9	9.9	2.4		3.6
SE	8.9	8.5	7.9	2.2		3.9
S	1.3	1.4	1.9	1.1		4.8
SW	.1	.1	.2	.1		5.4
W	*	*	.1	.1		6.1
NW	.1	.1	.2	.2		5.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.2	*		3.1
TOT OBS					31530	3.8
TOT PCT	34.5	29.8	27.2	8.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.3	.5	.3	.2	*	*	*	4.0	
NE	*	*	.1	.7	1.4	.7	.4	.1	*	*	18.1	
E	.1	*	.2	1.5	2.7	1.3	.7	.1	*	.1	31.0	
SE	.1	*	.3	1.4	2.3	1.3	.7	.2	*	*	21.2	
S	.1	*	.1	.5	.7	.4	.2	*	*	*	9.5	
SW	*	*	*	*	.1	*	*	*	.0	.0	.3	
W	*	.0	*	*	*	*	*	*	.0	.0	.1	
NW	*	.0	*	.1	.1	*	*	*	*	*	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	*	*	*	*	*	.0	.7	
TOT OBS												31530
TOT PCT	.2	.1	.8	4.6	8.0	4.1	2.2	.5	.1	.2	79.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.7	.8	.8	.9	.9	.9	.9	.9
* OR >3500	2.5	2.9	3.0	3.1	3.1	3.1	3.1	3.1
* OR >2000	5.7	6.8	7.1	7.2	7.2	7.2	7.2	7.2
* OR >1000	12.1	14.5	15.0	15.1	15.1	15.1	15.2	15.2
* OR >600	15.5	18.9	19.6	19.7	19.8	19.8	19.8	19.8
* OR >300	15.9	19.6	20.4	20.5	20.6	20.6	20.6	20.6
* OR >150	16.0	19.6	20.4	20.6	20.7	20.7	20.7	20.7
* OR > 0	16.1	19.8	20.6	20.8	20.9	20.9	20.9	20.9

TOTAL NUMBER OF OBS: 31770

PCT FREQ NH <5/8: 79.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.0	17.4	24.5	19.4	11.5	6.1	5.4	4.2	5.4 .1	33388

PERIOD: (PRIMARY) 1911-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	.0	*	.0	*	.1	
	NO PCP	*	*	*	*	.0	*	*	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	*	*	*	*	.0	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
1<2	PCP	*	*	*	*	*	*	*	.0	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	.1	.1	*	*	*	*	.0	*	.2	
2<5	PCP	*	.1	.2	.2	.1	*	*	*	.0	*	.6	
	NO PCP	.1	.2	.3	.3	.2	*	*	*	.0	*	1.2	
	TOT %	.1	.3	.5	.4	.3	.1	*	*	.0	*	1.8	
5<10	PCP	.1	.3	.6	.8	.3	.1	*	.1	.0	*	2.2	
	NO PCP	.6	2.2	3.9	3.3	.9	.2	.1	.1	.0	.1	11.2	
	TOT %	.8	2.5	4.4	4.0	1.2	.2	.1	.2	.0	.1	13.4	
10+	PCP	.1	.3	.7	.7	.2	.1	*	*	.0	*	2.1	
	NO PCP	4.3	18.3	31.4	22.2	4.3	.6	.2	.4	.0	.7	82.3	
	TOT %	4.4	18.7	32.0	22.9	4.5	.6	.2	.4	.0	.7	84.4	
	TOT OBS												39210
	TOT PCT	5.3	21.5	37.1	27.5	6.0	1.0	.3	.6	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	*	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	.0	*	.0		*	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	0-3	.0	*	*	*	*	*	.0	.0	.0	.0	*	
	4-10	.0	*	*	*	*	*	*	.0	.0		.1	
	11-21	.0	*	*	*	*	*	.0	*	.0		*	
	22+	*	*	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
1<2	0-3	*	*	*	*	*	*	*	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	.0	.0	.0		*	
	TOT %	*	.1	.1	.1	.1	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.3	.2	.1	*	*	*	.0		.8	
	11-21	.1	.1	.2	.2	.1	*	*	*	.0		.7	
	22+	*	*	*	*	*	*	.0	*	.0		.1	
	TOT %	.1	.2	.5	.5	.2	*	*	*	.0	*	1.7	
5<10	0-3	*	.1	.1	.1	.1	*	*	*	.0	.1	.6	
	4-10	.3	1.1	2.0	1.5	.3	.1	*	.1	.0		5.5	
	11-21	.3	.7	1.4	1.6	.4	.1	*	*	.0		4.5	
	22+	*	*	.1	.2	.1	*	.0	*	.0		.5	
	TOT %	.6	2.0	3.6	3.5	.9	.2	.1	.1	.0	.1	11.1	
10+	0-3	.3	.8	1.3	.9	.3	.1	*	.1	.0	.8	4.5	
	4-10	2.3	11.3	21.4	13.7	2.1	.4	.2	.3	.0		51.7	
	11-21	1.7	5.9	9.8	9.3	1.9	.2	*	.1	.0		28.9	
	22+	.1	.1	.2	.8	.4	*	*	*	.0		1.6	
	TOT %	4.4	18.1	32.8	24.6	4.7	.7	.2	.4	.0	.8	86.7	
	TOT OBS												69289
	TOT PCT	5.1	20.4	37.0	28.8	5.9	1.0	.3	.6	.0	.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.1	.6	4.0	6.8	3.7	1.6	.3	.1	.2	17.9	82.1	8089
06&09	.2	*	.9	5.0	8.2	3.4	2.1	.5	.1	.2	20.5	79.5	7959
12&15	.1	.1	.8	4.5	8.3	4.5	2.4	.5	.1	.2	21.6	78.4	8463
18&21	.2	.1	.9	4.4	7.6	4.4	2.4	.7	.1	.2	21.1	78.9	8509
TOT													33020
PCT	.2	.1	.8	4.5	7.7	4.0	2.1	.5	.1	.2	20.3	79.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.5	2.0	11.4	85.8	16412
06&09	.1	.1	.3	1.8	12.9	84.8	18419
12&15	.1	.1	.4	1.6	9.7	88.1	16987
18&21	.1	.1	.3	1.6	10.4	87.6	18066
TOT							69884
PCT	.1	.1	.4	1.7	11.1	86.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	1.3	6.4	12.8	80.8	7742
06&09	.3	1.3	8.0	14.2	77.8	7605
12&15	.1	1.1	6.7	15.6	77.7	8236
18&21	.2	1.3	7.0	15.2	77.9	8187
TOT						31770
PCT	.2	1.3	7.0	14.5	78.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	.0	*	*	.0	.0		*
90/94	.0	.0	*	.1	.1	*	*	*		.3
85/89	.0	.0	*	.2	1.5	1.2	.3	.1		3.4
80/84	.0	.0	*	.3	6.7	22.2	8.6	2.1		39.9
75/79	.0	.0	*	.4	4.8	23.6	15.0	5.4		49.2
70/74	.0	.0	.0	.1	.7	1.9	2.6	2.0		7.1
65/69	.0	.0	.0	.0	.0	*	*	.1		.1
TOTAL									32424	100.0
PCT	.0	.0	.1	1.1	13.8	48.8	26.6	9.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.0	.0	.0	.0	.0	.0	.0
*	.1	.1	*	*	*	.0	*	.0	*
.3	1.1	1.2	.6	.1	*	*	*	.0	*
2.8	10.2	15.6	9.0	1.5	.2	.1	.2	.0	.3
1.9	9.1	18.2	15.4	3.4	.4	.1	.3	.0	.4
.1	.6	2.2	3.0	1.0	.1	*	*	.0	*
*	*	*	*	*	*	*	*	.0	.0	.0
5.2	21.1	37.3	28.0	6.0	.8	.3	.6	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	82	80	78	75	73	64	77.9	25629
06&09	94	82	81	78	74	72	64	77.7	32400
12&15	95	87	84	80	76	73	65	79.9	27255
18&21	97	87	84	79	76	73	64	79.5	31074
TOT	97	86	83	79	75	73	64	78.7	116358

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	7.1	49.2	32.8	10.4	79	8077
06&09	.0	.4	6.4	47.3	33.7	12.2	80	8067
12&15	.0	1.6	18.5	49.3	21.4	9.1	76	8621
18&21	.0	2.1	22.6	48.9	19.3	7.0	75	8110
TOT	0	389	4517	16020	8773	3176	78	32875

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	*	13	.0	*
11/13	.0	.0	.0	*	*	*	*	.1	*	52	.0	.2
9/10	.0	.0	.0	*	*	*	.1	.1	.0	99	.0	.3
7/8	.0	.0	.0	*	.1	.2	.3	.2	*	238	.0	.7
6	.0	.0	.0	*	.1	.2	.3	.1	*	207	.0	.6
5	.0	.0	.0	*	.2	.5	.5	*	.0	394	.0	1.2
4	.0	.0	*	.1	.3	1.0	.6	*	.0	650	*	1.9
3	.0	.0	*	.1	.7	1.5	.6	*	.0	960	*	2.8
2	.0	.0	*	.3	1.8	3.0	.5	.0	.0	1897	*	5.6
1	.0	.0	*	.6	4.0	4.2	.3	*	.0	3068	.1	9.0
0	.0	*	*	1.8	8.4	6.0	.1	.0	.0	5524	.1	16.2
-1	.0	*	*	3.5	10.6	5.2	.1	.0	.0	6610	.1	19.3
-2	.0	.0	.1	4.4	9.5	2.7	*	.0	.0	5698	.1	16.7
-3	.0	*	.1	3.5	5.7	1.1	*	.0	.0	3572	*	10.5
-4	.0	*	.3	2.9	3.4	.4	*	.0	.0	2380	*	7.0
-5	.0	*	.3	1.7	1.6	.2	*	.0	.0	1330	*	3.9
-6	.0	*	.3	.9	.6	*	.0	.0	.0	618	*	1.8
-7/-8	.0	*	.3	.6	.3	*	.0	.0	.0	439	*	1.3
-9/-10	*	*	.1	.1	*	*	.0	.0	.0	108	.0	.3
-11/-13	*	*	*	*	.0	.0	.0	.0	.0	35	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL										33896		
PCT	*	.1	1.6	20.7	47.3	26.4	3.2	.5	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	.1	1.5	.5	.0	.0	.0	2.0
3-4	.0	.7	1.2	*	.0	.0	2.0
5-6	.0	.1	.8	.1	.0	.0	1.0
7	.0	*	.3	*	.0	.0	.3
8-9	.0	.0	*	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	2.8	.2	*	.0	5.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.0
1-2	.2	6.7	1.5	.0	.0	.0	8.4
3-4	.1	4.3	4.1	*	.0	.0	8.5
5-6	.0	.7	2.4	.1	.0	.0	3.1
7	.0	*	.5	.1	.0	.0	.6
8-9	.0	*	.1	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	12.5	8.6	.2	*	.0	21.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.1	.0	.0	.0	1.8
1-2	.6	11.8	2.4	.0	.0	.0	14.8
3-4	*	7.4	6.4	.1	.0	.0	13.9
5-6	*	1.5	3.9	.2	.0	.0	5.6
7	*	.2	1.1	.1	.0	.0	1.5
8-9	.0	.1	.2	*	.0	.0	.2
10-11	.0	*	.1	*	.0	.0	.1
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	22.2	14.2	.5	.0	.0	37.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.1
1-2	.3	6.4	1.5	.0	.0	.0	8.2
3-4	*	4.2	4.8	.2	.0	.0	9.2
5-6	*	1.0	3.9	.3	.0	.0	5.2
7	*	.1	1.3	.3	*	.0	1.8
8-9	.0	*	.4	.2	.0	.0	.6
10-11	.0	*	.1	.2	*	.0	.2
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	12.5	12.0	1.2	*	.0	26.4

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TABLE 18 (CONT)

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14.0S 36.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3	*	.1	.0	.0	.0	.0	.1
1-2	.1	.9	.4	.0	.0	.0	1.3	*	.2	.1	.0	.0	.0	.3
3-4	*	.8	.9	.1	.0	.0	1.9	*	.1	.1	*	.0	.0	.2
5-6	.0	.2	.7	.2	.0	.0	1.1	.0	*	*	*	.0	.0	.1
7	.0	*	.3	.2	.0	.0	.4	.0	*	*	*	.0	.0	*
8-9	.0	*	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	*	*	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	2.4	.7	*	.0	5.4	*	.4	.2	*	.0	.0	.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	*	*	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
1-2	*	.1	*	.0	.0	.0	.2	*	.2	*	.0	.0	.0	.3	
3-4	.0	*	*	.0	.0	.0	*	*	.1	.1	.0	.0	.0	.2	
5-6	.0	.0	*	.0	.0	.0	*	.0	*	*	*	.0	.0	.1	
7	.0	*	*	.0	.0	.0	*	.0	*	*	*	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	*	.2	.1	.0	.0	.0	.3	*	.4	.2	*	.0	.0	.6	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	3.5	.2	.0	.0	.0	6.2	
1-2	1.6	27.7	6.4	.0	.0	.0	35.7	
3-4	.2	17.4	17.5	.4	.0	.0	35.5	
5-6	*	3.5	11.6	.9	.0	.0	16.0	
7	*	.4	3.5	.7	*	.0	4.7	
8-9	.0	.1	.8	.3	*	.0	1.3	
10-11	.0	*	.2	.3	*	.0	.5	
12	.0	.0	*	*	.0	.0	.1	
13-16	.0	*	*	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								13479
TOT PCT	4.3	52.6	40.3	2.8	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	12.7	19.3	7.0	1.7	.5	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11323	3
6-7	.1	1.6	10.7	11.6	4.5	1.4	.5	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	8038	5
8-9	*	.4	2.1	3.4	2.9	1.1	.5	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	2784	6
10-11	.0	.5	.5	.6	.6	.4	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	783	6
12-13	.0	.0	.5	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	295	5
>13	.0	.0	.0	.2	.2	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	129	7
INDET	1.5	2.7	3.5	1.9	.7	.3	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2797	3
TOTAL PCT	3.5	17.9	36.6	25.0	10.7	3.9	1.7	.4	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	26149 100.0	4

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0007 SALVADOR
14.0S 36.5W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4	*
89/90	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	*
87/88	.1	.2	.2	.2	.1	*	.0	.0	.0	*	*	.1	82	.1
85/86	.6	2.4	2.6	2.0	.6	.1	*	*	*	.1	*	.3	813	.7
83/84	6.4	14.9	21.3	16.9	5.6	1.0	.2	.1	.2	.3	.8	2.2	6396	5.7
81/82	48.0	56.0	57.0	56.1	34.5	11.1	2.8	1.1	1.7	4.5	11.4	26.2	28443	25.6
79/80	38.0	23.1	16.4	21.4	43.5	38.5	14.1	7.4	10.2	25.2	44.1	49.3	30839	27.7
77/78	6.0	2.9	1.9	2.8	13.4	39.5	45.6	36.9	43.0	50.6	36.5	19.2	27954	25.1
75/76	.7	.4	.1	.4	1.7	8.3	30.3	41.3	37.6	16.2	6.0	2.5	13509	12.1
73/74	.1	.1	.2	.1	.4	1.2	6.2	11.2	6.5	2.5	1.1	.3	2791	2.5
71/72	.1	*	.1	*	.1	.2	.5	1.5	.5	.5	.1	*	340	.3
69/70	*	*	*	*	*	.1	.1	.2	.2	.1	*	*	76	.1
67/68	.0	*	.0	.0	.0	*	.1	.1	.1	.1	.0	.0	35	*
65/66	.0	.0	.0	.0	.0	.0	*	*	.1	*	*	.0	14	*
63/64	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8647	8683	9232	9277	10291	10306	9941	9282	8640	9090	9162	8758	111309	100.0
MEAN	80.6	81.3	81.6	81.3	80.0	78.5	76.9	76.2	76.7	77.7	78.7	79.6	79.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1013	1013	1012	1014	1014	1014	1013	1013	1013	5361
FEB	1013	1013	1012	1014	1014	1014	1012	1013	1013	5554
MAR	1013	1013	1012	1014	1014	1014	1012	1013	1013	5555
APR	1014	1014	1013	1014	1015	1015	1013	1014	1014	5793
MAY	1016	1016	1015	1016	1016	1016	1015	1016	1015	6386
JUN	1018	1018	1017	1018	1018	1018	1017	1017	1017	6052
JUL	1019	1019	1018	1019	1020	1020	1018	1019	1019	5642
AUG	1019	1019	1018	1019	1020	1019	1018	1019	1019	5298
SEP	1018	1018	1017	1018	1019	1018	1017	1017	1018	5342
OCT	1016	1015	1014	1016	1017	1016	1014	1015	1015	5575
NOV	1014	1014	1013	1014	1015	1014	1013	1013	1013	5474
DEC	1013	1013	1012	1014	1014	1014	1012	1013	1013	5164
ANN	1016	1015	1014	1016	1016	1016	1015	1015	1015	67196
OBS	10106	4997	13419	4521	9951	6464	13295	4443		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1007	1009	1012	1013	1015	1017	1019	1024
FEB	1002	1006	1009	1012	1013	1015	1017	1019	1023
MAR	1002	1007	1009	1012	1013	1015	1016	1018	1023
APR	1003	1007	1010	1012	1014	1015	1017	1019	1024
MAY	1005	1010	1012	1014	1015	1017	1019	1022	1026
JUN	1006	1011	1013	1016	1017	1019	1021	1024	1029
JUL	1009	1012	1015	1017	1019	1020	1023	1024	1029
AUG	1006	1012	1015	1017	1019	1020	1023	1024	1028
SEP	1002	1011	1013	1016	1018	1019	1022	1023	1029
OCT	1004	1009	1011	1014	1015	1017	1019	1021	1027
NOV	1001	1006	1009	1012	1014	1015	1018	1019	1026
DEC	1001	1007	1009	1012	1013	1015	1017	1018	1024

JANUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.75 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.4	1.5	1.3	.0	.0	.0	.0	6.0	2.1	2.8	.1	.0	.4	.0		88.7
NE	1.4	1.0	.9	.0	.0	.0	.0	3.1	1.3	2.2	.2	.0	.1	.0		93.0
E	1.0	2.4	.6	.0	.0	.0	.0	3.9	2.4	.5	.4	.0	.2	.0		92.7
SE	5.7	.9	2.1	.0	.0	.0	.0	8.2	3.6	2.6	.0	.0	1.0	.0		84.5
S	8.7	5.2	2.6	.0	.0	.0	.0	16.5	9.7	1.3	.0	.0	.0	.0		72.6
SW	3.4	1.7	6.8	.0	.0	.0	.0	11.9	.0	.0	.0	.0	.0	.0		88.1
W	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0		96.3
NW	9.4	.0	3.3	.0	.0	.0	.0	12.8	7.2	2.2	.0	.0	.0	2.2		75.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.4	.0	3.4	.0	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0		93.1
TOT PCT	2.5	1.5	1.3	.0	.0	.0	.0	5.2	2.3	1.9	.2	.0	.2	*		90.3
TOT OBS:	2442															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0003	2.2	1.9	2.2	.0	.0	.0	.0	6.4	1.2	5.0	.3	.0	.2	.0		86.9
0609	3.1	1.7	2.1	.0	.0	.0	.0	6.5	3.1	2.9	.0	.0	.0	.2		87.3
1215	2.8	1.9	.3	.0	.0	.0	.0	4.9	2.5	.1	.1	.0	.6	.0		91.7
1821	2.1	.5	.6	.0	.0	.0	.0	3.2	2.0	.2	.2	.0	.2	.0		94.3
TOT PCT	2.6	1.5	1.2	.0	.0	.0	.0	5.2	2.2	1.9	.2	.0	.2	*		90.3
TOT OBS:	2494															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	9.3	12.1	1.3	*	.0		23.3	12.2	19.3	18.6	20.7	21.7	28.7	28.2	25.5	15.9
NE	1.1	21.7	15.2	.9	*	*		39.0	10.6	43.8	41.3	40.3	38.0	34.5	34.3	39.7	38.3
E	1.2	13.5	5.0	.1	.0	*		19.8	8.8	19.7	22.1	21.6	25.2	17.8	18.9	16.6	20.4
SE	.8	4.7	1.8	.2	.0	.0		7.4	8.6	7.4	9.1	7.3	9.1	7.1	6.6	6.9	8.0
S	.4	1.5	1.1	.3	.0	.0		3.3	10.4	4.0	3.5	2.5	2.1	3.1	3.3	3.9	2.9
SW	.3	1.2	.8	*	.0	.0		2.2	9.3	2.8	1.6	1.6	1.0	2.3	2.2	3.1	1.7
W	.2	.5	.2	*	.0	.0		.9	7.8	.7	.7	1.1	.7	.8	1.4	.9	.9
NW	.3	1.2	1.0	.1	*	.0		2.5	10.2	1.2	1.9	2.7	1.9	4.3	3.6	1.9	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.1	1.2	2.0	.3	1.5	1.6	1.5	1.7
TOT OBS	476	4004	2771	220	3	1	7475		10.2	1170	851	1380	289	1150	990	1410	235
TOT PCT	6.4	53.6	37.1	2.9	*	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	14.7	5.1	.1	.0		23.3	12.2	19.0	20.9	28.4	24.1
NE	7.6	26.7	4.7	.1	*		39.0	10.6	42.7	39.9	34.4	39.5
E	6.7	12.0	1.1	.0	*		19.8	8.8	20.7	22.2	18.3	18.3
SE	3.4	3.3	.7	*	.0		7.4	8.6	8.1	7.6	6.9	7.1
S	1.2	1.4	.7	*	.0		3.3	10.4	3.8	2.4	3.2	3.7
SW	.8	1.2	.2	*	.0		2.2	9.3	2.3	1.5	2.3	2.9
W	.5	.4	.1	*	.0		.9	7.8	.7	1.0	1.1	.9
NW	.8	1.4	.4	*	.0		2.5	10.2	1.5	2.6	3.9	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	1.7	1.5	1.5
TOT OBS	1927	4565	961	21	1	7475		10.2	2021	1669	2140	1645
TOT PCT	25.8	61.1	12.9	.3	*		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	4.4	53.5	37.0	3.9	.0	*	10.4	100.0	2021
06&09	1.7	4.6	54.0	37.6	2.0	.1	.0	10.1	100.0	1669
12&15	1.5	5.2	52.6	37.7	2.9	.1	.0	10.3	100.0	2140
18&21	1.5	5.3	54.4	35.9	2.9	.0	.0	10.1	100.0	1645
TOT	110	366	4004	2771	220	3	1	10.2		7475
PCT	1.5	4.9	53.6	37.1	2.9	*	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.8	5.4	6.6	4.9		4.6
NE	16.3	10.6	9.8	3.5		3.5
E	8.9	6.4	4.3	.9		3.1
SE	1.5	2.0	2.7	1.3		4.7
S	.4	.5	1.2	1.0		5.6
SW	.1	.6	.9	.8		6.0
W	.0	.2	.3	.2		5.8
NW	.2	.3	.8	.5		5.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	.1		3.7
TOT OBS	666	519	535	260	1980	3.9
TOT PCT	33.6	26.2	27.0	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.1	.3	1.1	2.6	1.1	.8	.1	.1	.2	16.1	
NE	*	.1	.4	1.4	1.9	1.3	1.4	.3	.1	.2	33.4	
E	*	.1	*	.4	1.2	.7	.3	*	.1	.1	17.5	
SE	.1	*	.2	.6	.7	.7	.1	.1	.1	.0	5.1	
S	.0	*	.0	.3	.5	.4	.1	.1	.0	.0	1.7	
SW	*	.0	.1	.2	.5	.5	*	.1	.0	.0	1.0	
W	*	.0	*	.1	.1	.1	.1	.0	.0	.0	.3	
NW	.1	.0	.1	.1	.3	.2	.1	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.9	
TOT OBS	5	6	22	85	156	99	57	12	5	9	1524	1980
TOT PCT	.3	.3	1.1	4.3	7.9	5.0	2.9	.6	.3	.5	77.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
▪ OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
▪ OR >3500	3.1	4.2	4.3	4.3	4.3	4.3	4.3	4.3
▪ OR >2000	6.2	8.5	9.3	9.3	9.3	9.3	9.3	9.3
▪ OR >1000	12.2	15.7	16.9	16.9	17.0	17.0	17.0	17.0
▪ OR >600	15.7	19.8	21.0	21.0	21.1	21.3	21.3	21.3
▪ OR >300	16.1	20.8	22.2	22.2	22.3	22.5	22.5	22.5
▪ OR >150	16.2	20.9	22.4	22.4	22.5	22.7	22.7	22.7
▪ OR > 0	16.3	21.0	22.5	22.6	22.7	22.9	22.9	22.9
TOTAL	325	420	450	452	454	458	458	458

TOTAL NUMBER OF OBS: 2000 PCT FREQ NH <5/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	20.7	20.2	15.9	9.4	5.3	5.4	3.8	8.5 .2	2145

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.7S 38.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	*	.1	*	.0	.0	*	*	.0	.0	.0	.2	
	TOT %	.1	.1	*	.0	.0	*	*	.0	.0	.0	.2	
	PCP	*	*	.0	*	*	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	*	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	*	*	.0	.0	.0	*	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.0	.0	.0	*	.0	.0	.1	
	PCP	.1	.1	.1	.1	.1	.1	.0	*	.0	*	.7	
2<5	NO PCP	.3	.4	.3	.2	.3	.3	.1	.1	.0	.0	1.9	
	TOT %	.4	.5	.3	.3	.4	.5	.1	.1	.0	*	2.6	
	PCP	.7	.7	.4	.4	.3	.1	.0	.1	.0	*	2.6	
5<10	NO PCP	2.4	4.0	2.1	1.1	.6	.4	.2	.3	.0	*	11.2	
	TOT %	3.1	4.7	2.5	1.5	.8	.5	.2	.4	.0	.1	13.8	
	PCP	.5	.5	.3	.1	.1	.1	.0	.1	.0	.0	1.6	
10+	NO PCP	18.6	33.9	17.1	5.9	1.8	1.4	.5	1.2	.0	1.1	81.5	
	TOT %	19.1	34.4	17.4	6.0	1.9	1.4	.5	1.3	.0	1.1	83.1	
	TOT OBS												2436
	TOT PCT	22.7	39.7	20.2	7.9	3.2	2.4	.8	1.8	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	*	.0	.0	*	*	.0	.0	.0	.1	
<1/2	4-10	.0	*	.0	.0	.0	*	.0	.0	.0		*	
	11-21	*	*	.0	.0	*	.0	.0	.0	.0		*	
	22+	*	*	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	.1	*	*	*	*	*	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	4-10	.0	.0	.0	.0	*	.0	*	.0	.0		*	
	11-21	*	*	.0	*	.0	.0	.0	.0	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	*	*	.0	*	.0	.0	*	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	*	*	.0	*	.0	*	.0		.1	
	11-21	.1	*	*	*	*	*	*	*	.0		.2	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	*	*	*	*	*	*	.0	.0	.3	
	0-3	*	*	*	.0	.0	*	*	.0	.0	*	.2	
2<5	4-10	.1	.2	.1	.2	.2	.2	.1	*	.0		1.0	
	11-21	.2	.1	.1	*	.1	.1	*	.0	.0		.7	
	22+	*	*	*	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.3	.4	.3	.3	.4	.3	.1	*	.0	*	2.2	
	0-3	.1	.2	*	.2	.2	.1	.1	.1	.0	.1	1.0	
5<10	4-10	.9	1.6	1.1	.7	.3	.3	.1	.2	.0		5.1	
	11-21	1.6	1.6	.6	.4	.3	.1	*	.2	.0		4.8	
	22+	.3	.1	*	*	*	.0	.0	*	.0		.5	
	TOT %	2.8	3.5	1.8	1.2	.7	.6	.2	.5	.0	.1	11.4	
	0-3	.6	.9	1.1	.6	.3	.1	.1	.2	.0	1.2	5.1	
10+	4-10	7.9	19.4	13.6	4.5	1.0	.8	.5	.9	.0		48.6	
	11-21	11.2	13.2	2.8	1.1	.7	.6	.1	.7	.0		30.4	
	22+	1.0	.5	*	.1	.1	*	*	*	.0		1.7	
	TOT %	20.7	34.0	17.5	6.3	2.1	1.5	.7	1.7	.0	1.2	85.8	
	TOT OBS												4316
	TOT PCT	24.0	38.0	19.6	7.9	3.3	2.5	1.1	2.3	.0	1.4	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.7S 38.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.2	1.3	3.0	6.9	4.3	1.3	.6	.2	.9	19.4	80.6	463
06&09	.4	.4	1.4	5.3	6.3	3.2	3.0	.4	.2	.4	21.0	79.0	495
12&15	.0	.2	1.1	4.6	8.1	6.2	3.9	.7	.4	.0	25.0	75.0	568
18&21	.0	.3	.7	3.9	8.1	4.9	2.9	.5	.2	.5	22.1	77.9	589
TOT	5	6	23	89	157	100	60	12	5	9	466	1649	2115
PCT	.2	.3	1.1	4.2	7.4	4.7	2.8	.6	.2	.4	22.0	78.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.2	.4	2.4	12.3	84.5	1180
06&09	.0	.1	.2	2.3	12.7	84.8	971
12&15	.4	.3	.4	2.3	11.2	85.3	1212
18&21	.1	.0	.0	2.1	10.3	87.5	1007
TOT	9	7	12	99	508	3735	4370
PCT	.2	.2	.3	2.3	11.6	85.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	2.5	7.4	14.5	78.1	434
06&09	.4	2.4	9.6	12.8	77.6	460
12&15	.0	1.8	8.4	18.0	73.6	545
18&21	.0	1.2	7.1	16.8	76.1	561
TOT	5	39	162	314	1524	2000
PCT	.3	2.0	8.1	15.7	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
90/94	.0	.0	.0	.2	.5	.1	.0	.0	15	.8
85/89	.0	.0	.0	.3	2.2	2.5	.5	.0	105	5.4
80/84	.0	.0	.0	.2	5.8	24.7	16.1	3.8	980	50.6
75/79	.0	.0	.0	.1	.5	10.3	22.5	8.5	808	41.8
70/74	.0	.0	.0	.0	.0	.0	.5	.8	25	1.3
TOTAL	0	0	0	16	173	728	765	253	1935	100.0
PCT	.0	.0	.0	.8	8.9	37.6	39.5	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.2	.2	.2	.1	.0	.0	.1	.0	.0	.1
1.4	2.5	1.0	.3	.0	.1	.1	.1	.0	.1
13.4	21.9	9.8	3.1	.6	.6	.2	.7	.0	.4
8.4	16.6	9.3	3.3	1.5	1.1	.3	.8	.0	.5
.2	.2	.2	.2	.3	.2	.0	.1	.0	.0
23.5	41.4	20.5	6.9	2.4	1.9	.6	1.7	.0	1.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	83	82	79	75	72	66	78.9	2015
06&09	88	83	81	79	75	72	68	78.4	1674
12&15	93	89	86	81	76	73	67	80.8	2069
18&21	96	90	88	81	77	72	69	81.5	1570
TOT	96	88	85	80	76	72	66	79.9	7328

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.3	31.4	48.9	17.3	83	481
06&09	.0	.4	1.7	28.7	51.0	18.3	83	471
12&15	.0	.6	12.9	42.1	33.0	11.4	79	527
18&21	.0	2.0	18.0	47.2	25.9	6.9	77	494
TOT	0	16	176	741	777	263	80	1973

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

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18.7S 38.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	*	.0	*	*	3	.0	.1
11/13	.0	.0	.0	.0	.2	.1	.0	7	.0	.3
9/10	.0	.0	.1	.3	.2	.7	.0	27	.0	1.3
7/8	.0	.0	.2	.4	1.0	.3	.0	41	.0	1.9
6	.0	.0	.2	.3	.8	.1	.0	31	.0	1.5
5	.0	.0	.1	.7	.8	.1	.0	38	.0	1.8
4	.0	.1	1.0	2.4	1.1	*	.0	99	.0	4.6
3	.0	.0	.7	3.3	.6	.0	.0	97	.0	4.6
2	.0	.2	2.5	6.6	.4	.0	.0	206	.0	9.7
1	.0	.1	7.2	6.7	.2	.0	.0	302	.0	14.2
0	*	.2	12.5	6.3	.0	.0	.0	406	.0	19.1
-1	.0	.3	13.2	2.8	.0	.0	.0	347	.1	16.2
-2	*	.8	9.8	1.2	.0	.0	.0	253	.0	11.9
-3	.0	1.2	4.6	.3	.0	.0	.0	131	.0	6.1
-4	.0	.9	2.6	.1	.0	.0	.0	76	.0	3.6
-5	.0	.7	.7	.0	.0	.0	.0	28	.0	1.3
-6	*	.5	.4	.0	.0	.0	.0	20	.0	.9
-7/-8	*	.4	.2	.0	.0	.0	.0	14	.0	.7
-9/-10	*	*	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	119	1192	667	113	33	1	2131	2	2129
PCT	.3	5.6	55.9	31.3	5.3	1.5	*	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.2
1-2	.2	4.3	2.1	.0	.0	.0	6.6
3-4	.1	1.4	5.4	.5	.0	.0	7.3
5-6	.0	.1	4.4	.4	.0	.0	4.9
7	.0	.0	1.4	.5	.0	.0	1.8
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	13.6	1.5	.0	.0	22.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.0	.0	.0	.0	2.1
1-2	.2	9.9	3.5	.0	.0	.0	13.6
3-4	.2	6.2	9.1	*	.0	.0	15.5
5-6	.0	.5	3.8	.5	.0	.0	4.8
7	.0	.6	1.0	.1	.0	.0	1.7
8-9	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	18.7	17.6	.8	.0	.0	38.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	.5	8.9	2.0	.0	.0	.0	11.3
3-4	.0	5.2	2.0	.0	.0	.0	7.2
5-6	.0	.8	.5	.0	.0	.0	1.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	16.2	4.6	.0	.0	.0	21.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.1	2.4	.6	.0	.0	.0	3.2
3-4	.0	1.2	1.1	.0	.0	.0	2.4
5-6	.0	.7	.6	.0	.0	.0	1.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.9	2.7	.0	.0	.0	7.8

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0008 VITORIA NE
18.75 38.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.2	.0	.0	.0	.3
1-2	.2	1.1	.3	.0	.0	.0	1.7
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.3	.2	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	1.3	.0	.0	.0	3.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.2	.0	.0	.0	1.3
3-4	.0	.3	.2	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.2	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.2	.0	.0	.0	.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.0	.0	.0	.0	.0	.2	
1-2	.1	.5	.5	.0	.0	.0	1.1	
3-4	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	*	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	.6	.8	*	.0	.0	1.8	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	4.5	.2	.0	.0	.0	9.5	
1-2	1.5	27.9	9.0	.0	.0	.0	38.5	
3-4	.2	14.9	18.2	.5	.0	.0	33.8	
5-6	.0	2.5	9.9	.8	.0	.0	13.2	
7	.0	.6	2.9	.6	.0	.0	4.0	
8-9	.0	.0	.2	.4	.0	.0	.6	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	50.5	40.7	2.3	.0	.0	100.0	841

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	14.6	21.4	8.1	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	808	3
6-7	.0	1.7	11.0	8.2	2.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	412	4
8-9	.1	.5	1.6	2.4	1.6	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	5
10-11	.0	.6	1.2	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	4
12-13	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	2.9	4.3	5.1	2.9	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	3
TOTAL	87	365	679	370	118	40	11	4	0	0	0	0	0	0	0	0	0	0	0	1674	4
PCT	5.2	21.8	40.6	22.1	7.0	2.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	.7	.4	.0	.0	.0	.0	2.7	1.8	4.0	.0	.0	.4		.0	91.5
NE	1.1	1.7	.5	.0	.0	.0	.0	3.2	1.9	1.8	.2	.0	.0		.0	93.1
E	1.7	2.5	.0	.0	.0	.0	.0	4.2	1.8	1.6	.0	.0	.1		.0	92.4
SE	4.5	3.0	.1	.0	.0	.0	.0	7.5	6.4	.6	.0	.0	.1		.0	85.3
S	10.5	5.8	3.9	.0	.0	.0	.0	19.3	7.7	.8	.0	.0	.0		.0	72.1
SW	10.7	4.3	.5	.0	.0	.0	.0	15.5	7.5	7.5	.0	.0	.0		.0	71.7
W	3.3	.0	6.6	.0	.0	.0	.0	9.8	6.6	11.5	.0	.0	.0		.0	72.1
NW	5.5	.0	.0	.0	.0	.0	.0	5.5	6.0	3.5	.0	.0	.0		.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.2	.0	.0	.0	.0	.0	2.2	6.5	2.2	.0	.0	.0		.0	89.1
TOT PCT	2.2	2.0	.4	.0	.0	.0	.0	4.6	2.7	2.2	.1	.0	.1		.0	90.4
TOT OBS:	2447															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	2.2	1.3	.7	.0	.0	.0	.0	4.0	1.6	4.9	.2	.0	.0		.0	89.5
06609	2.3	2.7	.3	.0	.0	.0	.0	5.3	3.6	4.0	.2	.0	.3		.0	87.2
12615	2.5	1.7	.4	.0	.0	.0	.0	4.6	4.1	.4	.0	.0	.1		.0	91.0
18621	1.9	2.3	.5	.0	.0	.0	.0	4.7	1.4	.3	.0	.0	.0		.0	93.6
TOT PCT	2.2	2.0	.5	.0	.0	.0	.0	4.7	2.7	2.2	.1	.0	.1		.0	90.4
TOT OBS:	2513															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	8.5	8.9	.9	*	.0		19.2	11.7	12.9	14.1	16.1	15.5	25.4	25.5	22.5	12.9
NE	1.6	22.3	13.0	.8	.0	.0		37.7	10.0	43.1	39.8	39.2	34.5	33.6	32.5	38.9	33.8
E	1.8	16.8	4.2	.1	.0	.0		22.9	8.0	24.9	25.7	24.5	31.7	19.4	21.3	19.5	28.2
SE	.8	7.1	2.1	.1	.0	.0		10.2	8.5	9.9	12.5	11.2	12.9	9.1	9.0	7.9	18.1
S	.3	2.0	.7	.1	.0	.0		3.2	9.1	3.9	3.0	2.7	1.0	2.8	2.8	4.2	2.5
SW	.2	.9	.5	*	.0	.0		1.8	9.2	1.5	1.1	1.4	1.0	2.2	2.2	2.5	.4
W	.2	.5	.1	*	.0	.0		.9	7.0	.4	.6	1.3	.2	1.5	1.1	.4	.8
NW	.3	1.3	.9	*	.0	.0		2.5	9.8	1.4	2.0	2.0	2.7	4.0	4.2	1.8	2.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.9	1.3	1.6	.4	2.0	1.5	2.3	.8
TOT OBS	582	4474	2291	161	1	0	7509		9.5	1146	871	1383	242	1229	970	1409	259
TOT PCT	7.8	59.6	30.5	2.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	11.6	3.8	.3	.0		19.2	11.7	13.4	16.0	25.4	21.0
NE	10.1	23.5	4.0	.1	.0		37.7	10.0	41.7	38.5	33.1	38.1
E	9.3	12.9	.7	.0	.0		22.9	8.0	25.2	25.6	20.2	20.8
SE	3.8	5.8	.6	*	.0		10.2	8.5	11.0	11.5	9.1	9.5
S	1.2	1.7	.3	*	.0		3.2	9.1	3.5	2.5	2.8	3.9
SW	.7	.8	.2	*	.0		1.8	9.2	1.3	1.4	2.2	2.1
W	.5	.3	*	*	.0		.9	7.0	.5	1.1	1.3	.5
NW	.7	1.5	.3	*	.0		2.5	9.8	1.7	2.1	4.1	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.6	1.4	1.8	2.1
TOT OBS	2366	4356	756	31	0	7509		9.5	2017	1625	2199	1668
TOT PCT	31.5	58.0	10.1	.4	.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0008 VITORIA NE
18.65 38.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	4.0	59.8	32.0	2.5	*	.0	9.8	100.0	2017
06&09	1.4	5.9	59.8	31.2	1.7	.0	.0	9.4	100.0	1625
12&15	1.8	7.5	58.8	29.2	2.6	.0	.0	9.4	100.0	2199
18&21	2.1	6.5	60.1	29.7	1.5	.0	.0	9.3	100.0	1668
TOT	131	451	4474	2291	161	1	0	9.5		7509
PCT	1.7	6.0	59.6	30.5	2.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.4	5.2	5.5	1.7		3.8
NE	15.5	11.9	8.4	1.9		3.2
E	8.6	7.8	6.2	.9		3.4
SE	2.8	2.7	1.9	1.0		3.9
S	.7	.8	1.6	1.1		5.3
SW	.4	.2	.9	.6		5.7
W	.2	*	.2	.2		5.1
NW	.2	.4	.9	.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	.6	.3	*		2.6
TOT OBS	740	595	522	155	2012	3.6
TOT PCT	36.8	29.6	25.9	7.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.9	1.0	.8	.5	*	.0	.2	16.4	
NE	.0	*	.1	1.0	1.4	1.5	.7	.1	.0	.1	32.7	
E	*	.0	.1	.5	1.0	.8	.1	.0	*	.0	21.0	
SE	*	.0	.1	.4	.6	.3	.1	.1	.0	.0	6.9	
S	.2	.0	.1	.2	.6	.5	.2	*	.0	.0	2.3	
SW	.0	.0	.2	.1	.4	.2	*	.0	.0	.0	1.1	
W	.0	.0	.0	*	*	.0	.1	*	.0	.0	.3	
NW	.0	.0	*	*	.2	.3	.1	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.1	*	.0	.0	.0	.0	1.7	
TOT OBS	6	1	14	65	108	89	37	6	1	6	1679	2012
TOT PCT	.3	*	.7	3.2	5.4	4.4	1.8	.3	*	.3	83.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.7	.7	.7	.7	.7	.7
* OR >3500	2.0	2.4	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8
* OR >1000	10.5	11.9	12.2	12.3	12.3	12.3	12.3	12.3
* OR >600	12.6	14.9	15.5	15.5	15.5	15.5	15.6	15.6
* OR >300	12.8	15.6	16.1	16.2	16.2	16.2	16.2	16.2
* OR >150	12.8	15.6	16.2	16.2	16.2	16.2	16.3	16.3
* OR > 0	12.9	15.9	16.5	16.5	16.5	16.5	16.6	16.6
TOTAL	266	327	340	341	341	341	342	342

TOTAL NUMBER OF OBS: 2062

PCT FREQ NH <5/8: 83.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.3	20.9	25.5	17.1	10.2	4.8	4.3	3.5	4.3	.1	2177

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	PCP	*	.1	.1	.1	.1	*	*	.0	.0	.0	.5	
2<5	NO PCP	.0	.4	.1	.0	.0	.1	.1	*	.0	.0	.7	
	TOT %	*	.5	.1	.1	.1	.2	.1	*	.0	.0	1.1	
	PCP	.1	.5	.4	.2	.3	.1	.0	.1	.0	.0	1.7	
5<10	NO PCP	2.5	3.7	2.2	1.0	.4	.3	.1	.2	.0	.1	10.4	
	TOT %	2.5	4.1	2.6	1.2	.7	.5	.1	.3	.0	.1	12.1	
	PCP	.4	.7	.5	.3	.3	*	*	*	.0	*	2.3	
10+	NO PCP	16.8	32.7	20.1	7.0	2.6	1.2	.4	1.7	.0	1.8	84.3	
	TOT %	17.2	33.4	20.6	7.3	3.0	1.2	.4	1.7	.0	1.8	86.6	
	TOT OBS												2442
	TOT PCT	19.8	38.1	23.4	8.6	3.7	1.9	.6	2.1	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	*	.1	*	.0	*	.0	.0	.0		.1	
	11-21	.0	.0	*	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.1	*	*	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
2<5	4-10	.1	.3	.1	.1	*	.1	.1	*	.0		.7	
	11-21	*	.1	*	*	.1	*	.0	.0	.0		.3	
	22+	*	*	*	*	*	*	.0	.0	.0		.2	
	TOT %	.1	.4	.1	.1	.1	.2	.1	*	.0	*	1.2	
	0-3	.0	.2	.1	.2	*	*	*	*	.0	.1	.7	
5<10	4-10	1.0	1.7	1.4	.6	.5	.2	.1	.3	.0		5.8	
	11-21	1.3	1.5	.5	.1	.2	.1	*	.1	.0		3.8	
	22+	.2	*	*	.0	*	.0	.0	.0	.0		.2	
	TOT %	2.4	3.4	2.0	.9	.7	.4	.1	.4	.0	.1	10.5	
	0-3	.8	1.5	1.9	.6	.2	.2	.1	.1	.0	1.4	6.7	
10+	4-10	7.8	20.6	15.6	5.5	1.6	.7	.4	1.1	.0		53.3	
	11-21	9.0	12.3	2.8	1.0	.7	.4	.1	.6	.0		26.9	
	22+	.4	.3	*	.0	.1	*	*	*	.0		1.0	
	TOT %	18.0	34.7	20.3	7.1	2.6	1.4	.6	1.8	.0	1.4	88.0	
	TOT OBS												4415
	TOT PCT	20.6	38.5	22.5	8.2	3.5	2.1	.8	2.3	.0	1.6	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.7	2.8	3.9	2.8	1.1	.4	.0	.4	12.2	87.8	460
06&09	.6	.0	1.0	3.1	5.6	4.3	2.5	.2	.2	.0	17.5	82.5	515
12&15	.2	.0	.7	3.6	6.0	5.3	2.2	.3	.0	.2	18.4	81.6	604
18&21	.3	.2	.3	2.8	5.4	4.0	1.2	.3	.0	.5	15.2	84.8	573
TOT	6	1	14	67	114	90	38	7	1	6	344	1808	2152
PCT	.3	*	.7	3.1	5.3	4.2	1.8	.3	*	.3	16.0	84.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.2	2.0	10.0	87.8	1171
06&09	.1	.0	.3	1.5	13.2	84.9	996
12&15	.1	.0	.3	1.2	10.1	88.3	1289
18&21	.0	.1	.0	.4	9.0	90.5	1031
TOT	2	1	9	59	471	3945	4487
PCT	*	*	.2	1.3	10.5	87.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.7	5.3	8.5	86.3	437
06&09	.6	1.9	5.6	13.2	81.2	484
12&15	.2	.9	5.3	13.6	81.1	588
18&21	.4	.9	4.2	11.6	84.3	553
TOT	6	22	104	245	1713	2062
PCT	.3	1.1	5.0	11.9	83.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	.3	.1	.0	14	.7
85/89	.0	.0	.0	.4	3.3	3.1	.9	.4	157	7.9
80/84	.0	.0	.1	.1	6.2	33.7	20.9	4.1	1296	65.0
75/79	.0	.0	.0	.0	.6	7.2	12.5	5.0	505	25.3
70/74	.0	.0	.0	.0	.0	.1	.2	.8	21	1.1
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	1	12	204	886	687	204	1994	100.0
PCT	.0	.0	.1	.6	10.2	44.4	34.5	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.3	.1	*	.0	.0	.0	*	.0	.0
2.1	3.4	1.7	.3	*	.1	.0	.2	.0	.1
13.6	26.5	15.4	5.0	1.8	.6	.3	.9	.0	1.0
3.9	7.4	6.3	3.3	1.8	.8	.3	.9	.0	.7
.0	.2	.2	.3	.2	.1	.1	*	.0	.0
.0	.0	.0	*	*	.0	.0	.0	.0	.0
19.8	37.8	23.7	9.0	3.9	1.6	.6	2.0	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	84	82	80	77	74	68	79.8	2004
06&09	88	84	82	79	76	73	70	79.3	1613
12&15	95	90	86	81	77	74	72	81.5	2126
18&21	94	90	88	82	78	74	71	82.2	1593
TOT	95	89	86	80	77	74	68	80.7	7336

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	3.5	39.9	44.7	11.7	81	461
06&09	.0	.0	2.8	38.2	43.3	15.7	82	492
12&15	.0	.2	12.3	46.3	33.4	7.8	78	575
18&21	.0	2.5	20.9	51.3	18.6	6.8	75	517
TOT	0	15	209	903	707	211	79	2045

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

TABLE 17

AREA 0008 VITORIA NE
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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.1	*	.1	7	.0	.3
9/10	.0	.0	.0	*	.2	.2	.3	*	18	.0	.8
7/8	.0	.0	.0	.1	.1	.3	.6	.0	25	.0	1.1
6	.0	.0	*	.1	.1	.8	.2	.0	27	.0	1.2
5	.0	.0	.0	.2	.6	1.3	.1	.0	49	.0	2.2
4	.0	.0	.1	.1	1.2	1.4	.0	.0	63	.0	2.8
3	.0	.0	*	.2	2.6	1.5	.1	.0	98	.0	4.4
2	.0	.0	.0	1.4	6.2	.9	.0	.0	189	.0	8.5
1	.0	.0	.0	3.9	8.5	.5	.0	.0	288	*	12.9
0	.0	.0	.1	9.1	10.7	.1	.0	.0	445	.0	20.0
-1	.0	.0	.0	9.5	6.9	*	.0	.0	366	.0	16.5
-2	.0	.1	.3	8.8	2.6	.0	.0	.0	263	.0	11.8
-3	.0	.0	.7	5.9	1.3	.0	.0	.0	174	.0	7.8
-4	.0	.0	.7	3.4	1.2	.1	.0	.0	119	.0	5.4
-5	.0	.0	.6	1.6	.2	*	.0	.0	54	*	2.4
-6	.0	.0	.3	.3	*	.0	.0	.0	14	.0	.6
-7/-8	.0	.2	.5	.1	*	.0	.0	.0	18	.0	.8
-9/-10	*	.0	.1	*	.0	.0	.0	.0	5	.0	.2
-11/-13	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	6	77	998	946	162	30	3	2223	2	2221
PCT	*	.3	3.5	44.9	42.6	7.3	1.3	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.8
1-2	.2	6.2	2.2	.0	.0	.0	8.5
3-4	.0	2.5	5.5	.2	.0	.0	8.2
5-6	.0	.6	3.8	.6	.0	.0	4.9
7	.0	.1	.6	.2	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	9.8	12.1	1.0	.0	.0	23.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.0
1-2	.7	9.7	3.7	.0	.0	.0	14.1
3-4	.0	6.6	8.6	.0	.0	.0	15.2
5-6	.0	.5	4.2	*	.0	.0	4.7
7	.0	.3	1.1	.0	.0	.0	1.3
8-9	.0	.2	.0	.2	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	18.3	17.6	.3	.0	.0	37.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.6
1-2	.4	7.7	1.3	.0	.0	.0	9.3
3-4	.2	4.0	2.1	.0	.0	.0	6.4
5-6	.0	.9	1.0	.0	.0	.0	1.9
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	14.3	4.4	.0	.0	.0	19.4

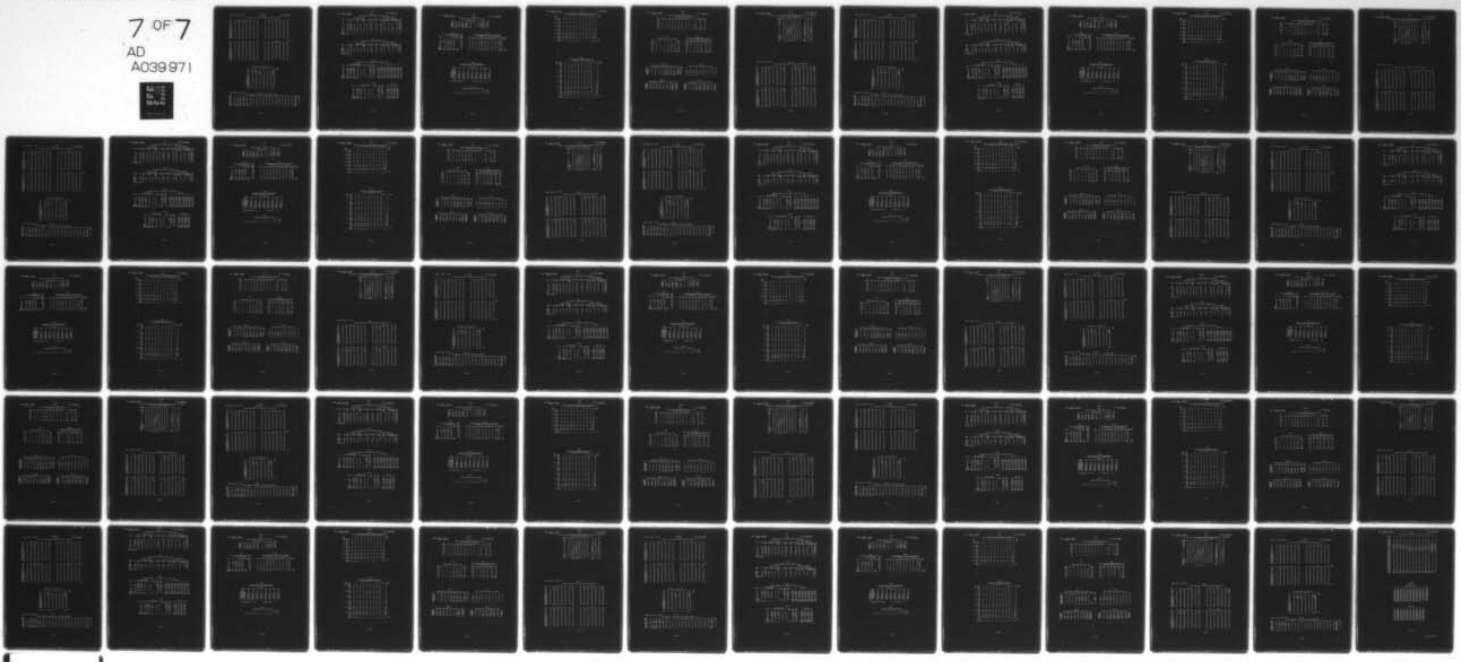
SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.5
1-2	.4	4.3	.4	.0	.0	.0	5.1
3-4	.0	1.8	.7	.0	.0	.0	2.5
5-6	.0	.5	.4	.1	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.9	1.5	.1	.0	.0	9.1

AD-A039 971 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). SOUTH A--ETC(U)
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DATE
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6-77

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
1-2	.0	1.6	.0	.0	.0	.0	1.6	.1	1.0	.0	.0	.0	.0	1.1
3-4	.0	.3	.8	.0	.0	.0	1.1	.0	.1	.4	.0	.0	.0	.5
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	1.2	.4	.0	.0	3.5	.3	1.3	.8	.1	.0	.0	2.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1-2	.1	.1	.0	.0	.0	.0	.2	.0	1.7	.1	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.5	*	.0	.0	1.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.0	.0	.0	.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.1	.0	.0	.0	.0	.2	.1	2.5	1.0	*	.0	.0	3.7	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	3.2	.1	.0	.0	.0	6.9	
1-2	2.3	31.7	7.6	.0	.0	.0	41.6	
3-4	.2	15.9	18.2	.2	.0	.0	34.6	
5-6	.0	2.5	10.0	.7	.0	.0	13.2	
7	.0	.5	1.8	.5	.0	.0	2.7	
8-9	.0	.4	.1	.5	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								856
TOT PCT	6.2	54.1	37.9	1.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	17.7	20.3	6.4	1.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	815	3
6-7	.0	2.4	10.6	9.6	2.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	438	4
8-9	.0	.5	2.1	2.8	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	5
10-11	.0	1.4	.6	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	4
12-13	.0	.0	.8	.6	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDET	2.5	4.6	4.0	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	2
TOTAL	80	449	647	364	108	28	7	2	1	0	0	0	0	0	0	0	0	0	0	1686	3
PCT	4.7	26.6	38.4	21.6	6.4	1.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
														BLWG		
N	2.0	2.3	.7	.0	.0	.0	.0	5.0	3.1	1.0	.3	.0	.2		.0	90.7
NE	1.7	1.4	.3	.0	.0	.0	.0	3.2	1.6	2.0	.0	.0	.2		.0	93.0
E	.8	1.8	.6	.0	.0	.0	.0	3.2	3.0	1.3	.5	.0	.3		.0	91.8
SE	2.0	3.3	.3	.0	.0	.0	.0	5.6	3.5	2.7	.0	.0	.0		.0	88.3
S	1.5	2.2	1.2	.0	.0	.0	.0	4.9	4.5	.6	.0	.0	.0		.0	90.0
SW	6.8	5.2	2.1	.0	.0	.0	.0	14.1	1.0	.0	2.1	.0	.0		.0	82.8
W	3.1	10.2	.0	.0	.0	.0	.0	13.3	8.2	.0	.0	.0	.0		.0	78.6
NW	6.5	1.9	.0	.0	.0	.0	.0	8.3	3.7	1.9	.0	.0	.0		.0	86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.9	.0	.0	.0	.0	1.9	1.9	3.8	.0	.0	1.9		.0	90.4
TOT PCT	1.7	2.1	.6	.0	.0	.0	.0	4.3	2.7	1.6	.2	.0	.2		.0	90.9
TOT OBS:	2438															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
														BLWG		
00603	1.6	2.8	.2	.0	.0	.0	.0	4.6	2.1	3.9	.4	.0	.2		.0	89.3
06609	2.5	1.5	.7	.0	.0	.0	.0	4.8	4.2	3.4	.3	.0	.2		.0	87.3
12615	2.2	2.5	.7	.0	.0	.0	.0	5.3	2.0	.1	.1	.0	.4		.0	92.1
18621	1.4	1.4	.6	.0	.0	.0	.0	3.5	3.0	.2	.0	.0	.0		.0	93.3
TOT PCT	2.0	2.1	.6	.0	.0	.0	.0	4.6	2.8	1.8	.2	.0	.2		.0	90.6
TOT OBS:	2504															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	7.7	5.9	.5	*	.0		15.2	10.5	10.7	10.8	13.3	14.2	19.5	18.7	17.8	11.9
NE	2.1	19.5	6.1	.4	*	.0		30.1	9.1	33.1	32.0	30.6	27.6	28.6	26.5	30.4	30.0
E	2.2	17.2	3.9	.2	*	.0		23.5	7.8	25.1	26.1	26.1	30.2	22.0	20.7	19.9	24.4
SE	1.7	10.6	3.0	.3	*	.0		15.7	8.2	17.2	19.6	16.7	18.6	13.4	13.9	13.2	17.9
S	.7	3.0	1.9	.3	*	*		5.9	10.2	7.6	6.2	5.1	2.5	5.0	4.8	7.1	7.4
SW	.5	1.2	1.0	.1	.0	.0		2.8	9.5	2.6	1.7	2.0	.7	3.2	4.1	3.5	2.2
W	.2	.7	.2	*	.0	.0		1.1	7.3	.5	.5	1.1	.5	1.9	1.5	1.2	.2
NW	.4	1.7	.7	.1	*	.0		2.9	9.1	1.0	1.5	1.9	3.4	4.4	5.7	2.9	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	2.2	1.5	3.1	2.3	2.0	3.9	4.0	2.5
TOT OBS	929	4966	1995	149	7	1	8047		8.7	1242	921	1482	262	1326	1070	1504	240
TOT PCT	11.5	61.7	24.8	1.9	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	9.3	2.1	.1	*		15.2	10.5	10.7	13.5	19.1	17.0
NE	10.0	18.1	1.9	.1	.0		30.1	9.1	32.7	30.1	27.7	30.3
E	10.4	12.5	.6	*	.0		23.5	7.8	25.5	26.8	21.5	20.5
SE	6.8	7.9	.9	.1	*		15.7	8.2	18.2	17.0	13.6	13.9
S	1.9	3.0	1.0	.1	*		5.9	10.2	7.0	4.7	4.9	7.2
SW	1.0	1.3	.4	*	.0		2.8	9.5	2.2	1.8	3.6	3.4
W	.6	.4	*	.0	.0		1.1	7.3	.5	1.0	1.8	1.0
NW	1.1	1.5	.3	*	*		2.9	9.1	1.2	2.1	5.0	3.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	1.9	3.0	2.9	3.8
TOT OBS	3082	4347	581	34	3	8047		8.7	2163	1744	2396	1744
TOT PCT	38.3	54.0	7.2	.4	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	6.9	63.4	26.3	1.5	*	.0	8.9	100.0	2163
06&09	3.0	8.3	61.7	24.5	2.6	.0	.0	8.8	100.0	1744
12&15	2.9	9.0	62.2	23.8	1.8	.2	*	8.6	100.0	2396
18&21	3.8	11.0	58.9	24.6	1.5	.1	.0	8.4	100.0	1744
TOT	228	701	4966	1995	149	7	1	8.7		8047
PCT	2.8	8.7	61.7	24.8	1.9	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	4.0	4.4	1.9		3.9
NE	12.6	8.6	8.5	1.7		3.4
E	10.2	7.4	7.4	1.5		3.5
SE	4.6	3.2	3.7	1.9		4.0
S	1.4	1.5	2.4	1.2		4.8
SW	.3	.3	.6	.6		5.2
W	.1	.1	.4	.1		5.2
NW	.5	.4	.8	.2		4.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.9	.3	.1		2.8
TOT OBS	732	547	584	188	2051	3.7
TOT PCT	35.7	26.7	28.5	9.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	*	.0	.4	1.0	.6	.3	.2	*	.0	12.6	
NE	*	.0	.1	.7	1.2	1.5	.6	.1	.0	.1	27.1	
E	.1	.0	.3	.9	1.4	1.1	.5	.1	.0	*	22.0	
SE	.2	.0	.1	.6	1.3	.6	.2	.1	.0	.0	10.4	
S	*	.0	.0	.3	1.2	.5	.1	*	.0	.0	4.4	
SW	*	.0	.0	.2	.3	.2	.0	.0	.0	.0	1.1	
W	.0	.0	.0	.1	.1	.2	.0	*	.0	.0	.4	
NW	.0	.0	.0	*	.3	.1	*	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.2	
TOT OBS	9	1	11	65	142	96	37	13	1	2	1674	2051
TOT PCT	.4	*	.5	3.2	6.9	4.7	1.8	.6	*	.1	81.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
* OR >5000	.5	.7	.8	.8	.8	.8	.8	.8
* OR >3500	2.0	2.6	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	5.6	7.1	7.3	7.3	7.3	7.3	7.3	7.3
* OR >1000	11.2	13.9	14.3	14.3	14.3	14.3	14.3	14.3
* OR >600	12.4	16.8	17.4	17.4	17.5	17.5	17.5	17.5
* OR >300	12.7	17.3	17.9	17.9	18.0	18.0	18.0	18.0
* OR >150	12.8	17.3	17.9	18.0	18.0	18.0	18.0	18.0
* OR > 0	14.1	17.8	18.4	18.4	18.5	18.5	18.5	18.5
TOTAL	294	369	382	383	384	384	384	384

TOTAL NUMBER OF OBS: 2078

PCT FREQ NH <5/8: 81.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.1	20.2	23.4	18.1	10.3	5.5	4.8	3.3	5.0	.3	2198

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	*	*	.0	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	*	*	.0	.0	.0	*	.0	.0	.0	.0	.1	
	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	*	.1	
	PCP	.1	.1	*	.1	*	.0	*	.0	.0	.0	.4	
2<5	NO PCP	.1	.2	.3	.2	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.2	.3	.3	.2	.1	.0	*	.0	.0	.0	1.2	
	PCP	.4	.4	.3	.5	.2	.2	.1	.1	.0	*	2.2	
5<10	NO PCP	1.7	2.6	2.2	1.6	1.1	.5	.3	.6	.0	.1	10.6	
	TOT %	2.0	2.9	2.5	2.1	1.3	.7	.4	.8	.0	.1	12.8	
	PCP	.3	.5	.5	.2	.1	.1	*	*	.0	.0	1.7	
10+	NO PCP	13.1	27.1	22.0	11.7	5.1	1.2	.5	1.4	.0	2.0	84.1	
	TOT %	13.4	27.6	22.4	11.9	5.2	1.3	.6	1.5	.0	2.0	85.8	
	TOT OBS												2432
	TOT PCT	15.7	30.9	25.3	14.2	6.6	2.0	1.0	2.2	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	.0	*	.0	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
1<2	4-10	*	*	.0	.0	*	.0	.0	*	.0		.1	
	11-21	.0	*	.0	.0	.0	*	.0	.0	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	*	.1	.0	.0	*	*	.0	*	.0	*	.2	
	0-3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.2	.1	.2	.1	.1	.0	*	.0		.8	
	11-21	.1	.1	.1	.1	.1	*	*	.0	.0		.5	
	22+	*	.1	*	*	*	*	.0	.0	.0		.2	
	TOT %	.3	.4	.3	.3	.2	.1	*	*	.0	.0	1.6	
	0-3	.1	.1	.2	.1	.1	*	*	.1	.0	.2	.8	
5<10	4-10	.7	1.4	1.4	1.0	.6	.2	.2	.3	.0		5.9	
	11-21	.6	.8	.6	.6	.5	.3	*	.2	.0		3.6	
	22+	.2	.2	*	.1	.1	.0	.0	*	.0		.6	
	TOT %	1.6	2.4	2.3	1.8	1.2	.5	.3	.6	.0	.2	10.9	
	0-3	.8	2.0	1.6	1.1	.4	.3	.1	.2	.0	2.0	8.5	
10+	4-10	6.5	19.3	17.6	8.9	2.5	.9	.4	1.1	.0		57.1	
	11-21	5.4	7.3	3.3	2.3	1.5	.6	.1	.4	.0		20.9	
	22+	.2	.2	*	.1	.2	*	*	*	.0		.7	
	TOT %	13.0	28.7	22.5	12.4	4.5	1.9	.6	1.6	.0	2.0	87.2	
	TOT OBS												4589
	TOT PCT	14.8	31.6	25.2	14.5	5.9	2.6	.9	2.2	.0	2.3	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.0	.4	2.7	5.5	4.4	1.3	.6	.0	.0	15.6	84.4	475
06&09	.6	.0	.4	3.2	7.8	3.8	1.8	.6	.0	.4	18.7	81.3	497
12&15	.3	.2	.5	3.2	9.4	5.0	2.3	.6	.2	.0	21.6	78.4	619
18&21	.2	.0	.7	3.1	4.1	4.3	1.9	.5	.0	.0	14.9	85.1	579
TOT	9	1	11	67	147	96	40	13	1	2	387	1783	2170
PCT	.4	*	.5	3.1	6.8	4.4	1.8	.6	*	.1	17.8	82.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.2	.1	1.9	12.4	85.5	1225
06&09	.1	.1	.3	2.0	12.9	84.7	1024
12&15	.0	.0	.4	1.3	10.9	87.5	1339
18&21	.0	.0	.1	1.4	8.3	90.2	1067
TOT	1	3	10	75	519	4047	4655
PCT	*	.1	.2	1.6	11.1	86.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	1.3	4.0	12.1	83.9	454
06&09	.6	1.3	6.3	14.3	79.4	475
12&15	.3	1.0	5.0	17.8	77.2	596
18&21	.2	.9	4.7	10.8	84.4	553
TOT	9	23	104	289	1685	2078
PCT	.4	1.1	5.0	13.9	81.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.4	.1	.0	.0	12	.6
85/89	.0	.0	.0	.3	1.6	2.8	1.0	.1	118	5.9
80/84	.0	.0	.0	.1	7.2	35.6	21.1	4.0	1365	68.1
75/79	.0	.0	.0	.0	1.2	6.7	11.5	5.4	498	24.9
70/74	.0	.0	.0	.0	*	*	.4		10	.5
TOTAL	0	0	0	11	209	908	675	200	2003	100.0
PCT	.0	.0	.0	.5	10.4	45.3	33.7	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.1	.1	.0	.0	.0	.0	.0	.0
1.0	2.0	1.5	.6	.1	*	.1	.3	.0	.2
11.8	22.4	17.4	8.5	3.4	1.0	.4	1.7	.0	1.4
2.7	5.1	6.2	5.2	3.5	1.0	.4	.3	.0	.4
*	.1	.1	.1	.0	.1	.0	*	.0	.0
15.7	30.0	25.2	14.5	7.1	2.1	1.0	2.4	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	84	82	80	77	74	64	79.8	2158
06&09	90	84	82	79	76	73	72	79.3	1734
12&15	95	90	86	81	77	75	69	81.4	2342
18&21	95	91	87	82	77	74	72	81.9	1675
TOT	95	88	85	80	77	74	64	80.6	7909

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	3.7	45.2	38.8	11.8	81	484
06&09	.0	.0	5.0	40.9	41.3	12.9	81	482
12&15	.0	.9	14.4	43.6	31.9	9.3	78	583
18&21	.0	1.0	16.8	50.7	24.8	6.8	76	513
TOT	0	12	212	930	700	208	79	2062

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	*	1	.0	*
9/10	.0	.0	*	.0	.0	.1	.0	4	.0	.2
7/8	.0	.0	*	.3	.2	.6	.0	25	.0	1.1
6	.0	.0	.1	.2	.4	.3	.0	22	.0	1.0
5	.0	*	.0	.6	1.3	*	.0	43	*	1.9
4	.0	.0	.2	3.6	1.5	.0	.0	72	.0	3.2
3	.0	.0	.7	2.8	1.2	.0	.0	105	.0	4.7
2	.0	.1	1.4	5.7	1.0	.0	.0	180	.0	8.1
1	.0	.0	2.3	9.7	.4	.0	.0	275	.0	12.4
0	.0	.1	6.1	10.1	.1	.0	.0	365	.0	16.4
-1	.0	.1	10.8	7.7	*	.0	.0	414	.1	18.5
-2	.0	.3	9.1	3.9	.1	.0	.0	297	.0	13.4
-3	.0	.4	6.4	1.9	.0	.0	.0	193	.0	8.7
-4	.0	.4	3.4	.8	*	.0	.0	103	.0	4.6
-5	.0	.9	1.8	.3	.0	.0	.0	67	.0	3.0
-6	.0	.3	.8	*	.0	.0	.0	25	.0	1.1
-7/-8	*	.4	.5	*	.0	.0	.0	21	.0	.9
-9/-10	.0	*	*	.0	.0	.0	.0	2	.0	.1
-11/-13	.1	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	3	68	969	1012	140	24	3	2219	4	2215
PCT	.1	3.1	43.7	45.6	6.3	1.1	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.1	.0	.0	.0	1.0
1-2	.2	3.5	1.3	.0	.0	.0	5.0
3-4	.0	2.7	3.7	.0	.0	.0	6.4
5-6	.0	.2	2.1	.0	.0	.0	2.3
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.4	7.4	.4	.0	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.1	.0	.0	.0	2.0
1-2	.8	9.6	2.5	.0	.0	.0	12.9
3-4	.1	6.5	4.3	.0	.0	.0	10.9
5-6	.0	.6	2.6	.1	.0	.0	3.3
7	.0	.5	.3	*	.0	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	18.9	9.8	.3	.0	.0	30.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.5	.3	.0	.0	.0	3.8
1-2	.6	8.9	.8	.0	.0	.0	10.3
3-4	.0	4.5	3.0	.0	.0	.0	7.5
5-6	.0	.7	.7	.0	.0	.0	1.4
7	.0	.2	.4	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	16.9	5.2	.0	.0	.0	23.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.1	.0	.0	.0	1.5
1-2	.4	5.4	.7	.0	.0	.0	6.5
3-4	.1	3.0	1.8	.0	.0	.0	4.9
5-6	.0	.3	1.1	.1	.0	.0	1.6
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.9	4.0	.2	.0	.0	14.9

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0008 VITORIA NE
18.6S 38.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.4
1-2	.1	2.4	.3	.0	.0	.0	2.8	.1	.5	.2	.0	.0	.0	.9
3-4	.0	1.2	1.3	.0	.0	.0	2.4	.0	.1	*	.0	.0	.0	.1
5-6	.1	.4	.6	.1	.0	.0	1.2	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	2.5	.5	.0	.0	7.7	.3	.9	.5	.1	.0	.0	1.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.3	*	.0	.0	.0	.4	
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.8	*	.0	.0	.0	.8	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	.1	.0	.0	.0	.6	.1	1.3	.6	.0	.0	.0	2.1	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	7.2	.6	.0	.0	.0	14.3	
1-2	2.4	31.1	5.8	.0	.0	.0	39.2	
3-4	.2	18.0	14.3	.0	.0	.0	32.5	
5-6	.1	2.4	7.5	.5	.0	.0	10.5	
7	.0	.8	1.5	.2	.0	.0	2.6	
8-9	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.2	59.6	29.7	1.5	.0	.0	100.0	849

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	18.0	20.8	5.1	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	860	3
6-7	.3	2.1	12.0	8.8	2.1	.2	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	448	4
8-9	.1	.5	2.9	2.0	1.6	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	5
10-11	.0	.5	.6	.5	.7	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
12-13	.0	.0	1.0	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
>13	.0	.0	.0	.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
INDET	2.0	3.2	3.5	1.3	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	3
TOTAL	111	420	709	322	115	30	22	5	0	0	1	0	0	0	0	0	0	0	0	1735	3
PCT	6.4	24.2	40.9	18.6	6.6	1.7	1.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1858-1973

AREA 0008 VITORIA NE
18.7S 38.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	1.0	2.1	.8	.0	.0	.0	.0	3.9	1.7	3.6	3.6	.0	.0	.0		87.2
NE	1.3	1.6	.1	.0	.0	.0	.0	2.9	3.3	1.9	1.6	.0	.0	.0		90.3
E	2.3	4.6	.2	.0	.0	.0	.0	6.9	4.6	2.5	.1	.0	.0	.0		86.1
SE	2.5	4.2	.8	.0	.0	.0	.2	7.6	4.4	.4	.0	.0	.0	.0		87.5
S	2.4	4.0	.4	.0	.0	.0	.0	6.7	5.3	.7	.7	.0	.0	.0		86.6
SW	4.0	6.7	.9	.0	.0	.0	.0	10.7	6.5	1.1	.2	.0	.0	.0		81.7
W	7.7	.0	.0	.0	.0	.0	.0	7.7	2.1	7.7	.0	.0	.0	.0		84.6
NW	2.5	.4	1.7	.0	.0	.0	.0	4.6	2.9	5.5	1.7	.0	.0	.0		85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	1.4	.0	.0	.0	.0	1.4	2.8	2.8	1.4	.0	.0	.0		91.7
TOT PCT	2.2	3.5	.5	.0	.0	.0	*	6.1	4.2	1.8	.8	.0	.0	.0		87.2
TOT OBS:	2503															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	1.6	3.6	.5	.0	.0	.0	.0	5.7	3.0	3.0	.5	.0	.0	.0		88.0
06&09	2.2	3.5	.7	.0	.0	.0	.0	6.2	4.7	4.7	.9	.0	.0	.0		83.8
12&15	3.0	3.6	.6	.0	.0	.0	.1	7.2	5.3	.0	.9	.0	.0	.0		86.7
18&21	2.1	3.3	.3	.0	.0	.0	.0	5.6	3.5	.0	1.4	.0	.0	.0		89.6
TOT PCT	2.3	3.5	.5	.0	.0	.0	*	6.2	4.1	1.8	.9	.0	.0	.0		87.1
TOT OBS:	2576															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	5.7	3.0	.1	.0	.0		9.7	9.2	7.7	6.0	8.0	7.3	12.6	13.4	11.0	7.0
NE	1.9	12.3	3.8	.2	.0	.0		18.2	8.2	19.1	20.5	19.8	19.2	17.4	17.3	16.2	15.0
E	2.3	13.7	3.8	.2	*	.0		20.0	7.9	20.9	23.0	21.2	23.3	19.0	18.7	17.1	20.7
SE	2.1	14.3	8.9	1.0	*	.0		26.3	10.0	26.4	29.9	27.3	31.8	24.4	24.3	24.0	31.7
S	1.1	5.8	5.4	1.0	*	.0		13.4	11.3	16.5	11.0	13.4	8.9	13.2	10.6	15.6	12.1
SW	.4	2.5	1.7	.4	.1	.0		5.1	11.2	4.9	4.3	3.7	2.3	6.0	4.8	7.4	3.8
W	.3	.8	.2	*	.0	.0		1.4	7.7	.4	.7	1.4	1.3	1.7	2.6	1.5	2.1
NW	.4	1.6	.6	*	.0	.0		2.6	8.2	1.0	1.3	1.7	3.3	3.6	5.0	2.9	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.1	3.3	3.6	2.6	2.0	3.2	4.2	5.6
TOT OBS	1041	4687	2278	240	12	0	8258		9.0	1259	970	1451	306	1268	1166	1533	305
TOT PCT	12.6	56.8	27.6	2.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	5.5	.9	*	.0		9.7	9.2	7.0	7.9	13.0	10.4
NE	7.4	10.0	.8	*	.0		18.2	8.2	19.7	19.7	17.3	16.0
E	9.0	10.0	1.0	*	.0		20.0	7.9	21.8	21.6	18.9	17.7
SE	7.8	15.0	3.2	.2	.0		26.3	10.0	27.9	28.1	24.4	25.3
S	3.4	7.0	2.7	.2	.0		13.4	11.3	14.1	12.6	12.0	15.0
SW	1.5	2.6	.9	.2	*		5.1	11.2	4.6	3.4	5.5	6.8
W	.7	.6	.1	.0	.0		1.4	7.7	.5	1.4	2.2	1.6
NW	1.2	1.2	.2	.0	.0		2.6	8.2	1.1	2.0	4.3	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.2	3.4	2.5	4.4
TOT OBS	3109	4289	805	54	1	8258		9.0	2229	1757	2434	1838
TOT PCT	37.6	51.9	9.7	.7	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1858-1973

AREA 0008 VITORIA NE
18.7S 38.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.2	8.8	58.4	26.3	3.1	.2	.0	8.9	100.0	2229
06&09	3.4	8.0	59.5	26.2	2.8	.1	.0	9.0	100.0	1757
12&15	2.5	9.7	55.8	29.1	2.8	.1	.0	9.2	100.0	2434
18&21	4.4	10.6	53.4	28.3	3.0	.2	.0	9.0	100.0	1838
TOT	274	767	4687	2278	240	12	0	9.0		8258
PCT	3.3	9.3	56.8	27.6	2.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	2.3	2.4	.9		3.7
NE	7.0	4.3	4.6	1.0		3.5
E	6.5	5.5	5.5	2.0		3.9
SE	7.9	5.7	8.1	2.9		4.1
S	4.5	3.9	6.3	2.5		4.4
SW	.5	1.4	2.9	1.3		5.5
W	.1	.6	.5	.2		4.8
NW	.7	.6	.7	.3		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.4	.9	.7	.1		2.9
TOT OBS	633	495	625	219	1972	4.0
TOT PCT	32.1	25.1	31.7	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	.6	.3	.1	.1	.0	.2	7.2	
NE	.1	.0	.1	.7	1.3	.5	.4	.2	.0	*	13.8	
E	.0	.1	.2	.9	1.8	.8	.5	.1	.0	.0	15.2	
SE	.0	.1	.5	1.9	2.0	1.5	.3	.2	.0	.3	17.9	
S	*	.1	.2	1.2	1.9	1.2	.5	.2	.1	.0	11.8	
SW	*	.0	.1	.9	.9	.5	.4	.1	.1	.0	3.2	
W	.0	.0	.0	.2	*	.1	.1	.0	.0	.0	1.0	
NW	.0	.0	.0	.1	.1	.1	.1	.0	.0	.1	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	2.7	
TOT OBS	2	6	22	129	174	98	45	14	3	10	1469	1972
TOT PCT	.1	.3	1.1	6.5	8.8	5.0	2.3	.7	.2	.5	74.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.3	3.6	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	7.4	8.6	8.7	8.8	8.8	8.8	8.8	8.8
* OR >1000	14.6	17.0	17.4	17.5	17.5	17.6	17.6	17.6
* OR >600	19.2	23.1	23.9	24.0	24.0	24.1	24.1	24.1
* OR >300	19.9	24.0	24.9	25.1	25.1	25.2	25.2	25.2
* OR >150	20.0	24.1	25.2	25.3	25.4	25.5	25.5	25.5
* OR > 0	20.0	24.2	25.2	25.4	25.5	25.6	25.6	25.6
TOTAL	405	489	510	514	516	517	517	517

TOTAL NUMBER OF OBS: 2021

PCT FREQ NH <5/8: 74.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.0	18.4	22.0	16.5	10.1	6.4	6.0	5.9	7.6	*	2118

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1858-1973

AREA 0008 VITORIA NE
18.7S 38.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
	PCP	.0	.0	*	.0	.1	*	*	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.0	.1	.1	*	.0	.0	.0	.2	
	PCP	.0	*	*	.3	.2	.1	*	.0	.0	.0	.7	
2<5	NO PCP	*	.2	.1	.3	.2	.2	.0	.0	.0	*	1.0	
	TOT %	*	.2	.1	.5	.3	.3	*	.0	.0	*	1.7	
	PCP	.2	.3	.4	1.0	.4	.2	.0	*	.0	.0	2.5	
5<10	NO PCP	1.2	2.0	2.5	3.8	1.5	.8	.3	.3	.0	.4	12.8	
	TOT %	1.4	2.3	2.9	4.8	2.0	1.0	.3	.4	.0	.4	15.3	
	PCP	.2	.2	.9	.6	.3	.2	*	.1	.0	*	2.6	
10+	NO PCP	7.7	14.4	15.9	18.9	13.5	4.1	1.0	1.9	.0	2.4	79.9	
	TOT %	7.9	14.6	16.8	19.5	13.8	4.3	1.1	2.0	.0	2.5	82.5	
	TOT OBS												2501
	TOT PCT	9.4	17.1	19.8	25.0	16.3	5.7	1.4	2.4	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	.0	*	*	*	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.0	*	*	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	*	*	.0	.0	.0	.0	.2	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	*	*	.0	*	.0	.0		.1	
	11-21	.0	*	.1	.0	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	*	.1	.1	*	.0	.0	.0	.3	
	0-3	.0	*	*	*	*	*	*	.0	.0	*	.2	
2<5	4-10	.1	.1	.1	.3	.1	.1	*	.1	.0		.9	
	11-21	*	.1	.1	.4	.2	.2	*	.0	.0		.9	
	22+	*	.1	*	*	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.3	.2	.7	.5	.2	.1	.1	.0	*	2.1	
	0-3	.2	.1	.3	.1	.1	*	*	.1	.0	.3	1.1	
5<10	4-10	.5	1.0	1.6	1.9	.7	.2	.1	.2	.0		6.2	
	11-21	.4	.7	.6	1.6	.9	.4	*	*	.0		4.6	
	22+	*	*	*	.2	.3	.2	.0	.0	.0		.7	
	TOT %	1.0	1.8	2.5	3.8	1.9	.8	.2	.3	.0	.3	12.7	
	0-3	.7	1.5	2.0	1.7	.5	.2	.3	.4	.0	2.6	9.9	
10+	4-10	5.3	11.2	12.3	12.0	5.4	2.2	.7	1.4	.0		50.6	
	11-21	3.1	3.7	2.8	5.9	5.1	1.2	.2	.5	.0		22.6	
	22+	*	.1	*	.3	.6	.5	*	.0	.0		1.5	
	TOT %	9.2	16.5	17.2	19.9	11.6	4.2	1.2	2.3	.0	2.6	84.6	
	TOT OBS												4561
	TOT PCT	10.3	18.7	20.0	24.4	14.1	5.4	1.5	2.7	.0	2.9	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1858-1973

AREA 0008 VITORIA NE
18.7S 38.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.4	1.2	4.1	5.1	3.1	2.2	.8	.2	.8	18.0	82.0	489
06&09	.4	.2	.9	7.5	10.3	5.1	1.9	.2	.0	.4	26.9	73.1	468
12&15	.0	.2	.7	7.7	11.0	5.7	2.3	1.1	.2	.4	29.3	70.7	557
18&21	.0	.4	1.4	6.0	7.7	5.6	2.3	.5	.4	.4	24.6	75.4	569
TOT	2	6	22	132	178	103	46	14	4	10	517	1566	2083
PCT	.1	.3	1.1	6.3	8.5	4.9	2.2	.7	.2	.5	24.8	75.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.4	2.1	14.7	82.7	1283
06&09	.1	.1	.4	1.6	15.3	82.5	981
12&15	.1	.3	.2	2.8	11.4	85.3	1302
18&21	.1	.2	.4	1.9	9.8	87.7	1069
TOT	4	8	15	99	592	3917	4635
PCT	.1	.2	.3	2.1	12.8	84.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.7	7.2	12.5	80.3	472
06&09	.4	1.6	10.0	18.2	71.8	450
12&15	.0	.9	10.0	20.2	69.8	549
18&21	.0	2.0	9.1	16.5	74.4	550
TOT	2	31	184	343	1494	2021
PCT	.1	1.5	9.1	17.0	73.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.0	.0	.0	.0	1	*
90/94	.0	.0	.0	.1	.1	.1	.0	.0	6	.3
85/89	.0	.0	.0	.3	1.1	1.3	.4	.2	69	3.4
80/84	.0	.0	.1	.7	7.0	25.7	11.1	1.8	933	46.5
75/79	.0	.0	*	.8	5.6	17.6	17.1	6.4	955	47.6
70/74	.0	.0	.0	*	.1	.2	.5	1.1	41	2.0
TOTAL	0	0	3	40	281	902	586	193	2005	100.0
PCT	.0	.0	.1	2.0	14.0	45.0	29.2	9.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	.1	*	.0	*	*	.0	.0	*
.4	.9	1.0	.6	.1	.1	.0	.1	.0	.1
5.9	10.4	10.5	10.6	4.8	1.5	.5	.9	.0	1.4
2.7	5.6	8.2	13.7	11.2	3.5	.7	.9	.0	1.1
*	.2	.3	.4	.5	.2	.1	.1	.0	*
9.1	17.2	20.2	25.3	16.6	5.4	1.4	2.1	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	83	82	79	75	73	70	78.7	2231
06&09	90	85	82	78	75	72	67	78.3	1752
12&15	93	89	86	80	76	73	67	80.3	2364
18&21	95	89	86	80	76	73	70	80.6	1787
TOT	95	87	84	79	75	73	67	79.5	8134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.6	8.9	43.4	35.7	11.4	80	518
06&09	.0	.6	8.9	44.2	35.5	10.8	79	471
12&15	.0	3.0	17.8	42.6	26.4	10.2	77	561
18&21	.0	4.0	18.9	49.2	22.1	5.7	75	524
TOT	0	44	287	930	616	197	78	2074

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1858-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	.0	.0	.1	3	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
7/8	.0	.0	.0	.2	.2	.3	.3	.0	22	.0	1.0
6	.0	.0	.0	.1	.1	.3	*	.0	13	.0	.6
5	.0	.0	*	.3	.4	.5	.0	.0	27	*	1.1
4	.0	.0	.0	.4	1.2	.8	.0	.0	54	.0	2.4
3	.0	.0	*	.7	1.8	.4	.0	.0	65	*	2.8
2	.0	.0	.2	1.7	3.7	.4	.0	.0	138	.1	6.0
1	.0	.0	.2	3.0	5.1	.2	.0	.0	193	.1	8.4
0	.0	.0	.3	8.7	6.7	.1	.0	.0	361	.3	15.7
-1	.0	.0	.6	12.3	5.2	*	.0	.0	413	.1	18.1
-2	.0	*	.8	12.4	3.4	*	.0	.0	379	.1	16.6
-3	.0	.0	1.4	9.0	.9	.0	.0	.0	255	*	11.2
-4	.0	.0	1.7	5.1	.4	.0	.0	.0	164	.0	7.2
-5	.0	.1	1.5	2.0	.2	.0	.0	.0	85	.0	3.7
-6	.0	.0	.9	1.1	.0	.0	.0	.0	46	.0	2.0
-7/-8	.0	.2	.7	.4	.0	.0	.0	.0	29	.0	1.3
-9/-10	.0	.3	.1	.1	.0	.0	.0	.0	12	.0	.5
-11/-13	*	.1	*	.1	.0	.0	.0	.0	6	.0	.3
TOTAL	1		194		665		11			21	2247
		15		1309		71		2	2268		
PCT	*	.7	8.6	57.7	29.3	3.1	.5	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.0	.0	.0	.0	1.1
1-2	.0	3.1	.8	.0	.0	.0	3.9
3-4	.0	.6	.8	.0	.0	.0	1.4
5-6	.0	.1	1.2	.0	.0	.0	1.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	3.1	.0	.0	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.1	.0	.0	.0	1.3
1-2	.4	5.7	.9	.0	.0	.0	7.0
3-4	.0	2.8	1.5	.0	.0	.0	4.3
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.1	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.0	2.8	.0	.0	.0	13.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.4	.0	.0	.0	.0	2.5
1-2	.8	5.5	.9	.0	.0	.0	7.2
3-4	.0	2.0	1.3	.0	.0	.0	3.3
5-6	.0	.4	.7	.0	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	9.3	3.0	.0	.0	.0	14.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.1	.0	.0	.0	2.7
1-2	.9	9.3	2.6	.0	.0	.0	12.8
3-4	.0	3.8	5.3	.2	.0	.0	9.4
5-6	.0	1.0	2.0	.4	.0	.0	3.3
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	16.2	10.8	.6	.0	.0	29.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.0	5.5	1.9	.0	.0	.0	7.4
3-4	.1	2.6	4.1	.5	.0	.0	7.3
5-6	.0	.2	1.8	.1	.0	.0	2.1
7	.0	.0	.8	.4	.0	.0	1.2
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.4	8.8	1.1	.0	.0	19.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.6
1-2	.1	1.3	1.0	.0	.0	.0	2.4
3-4	.0	1.4	1.5	.2	.0	.0	3.0
5-6	.0	.1	.4	.3	.0	.0	.8
7	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	3.0	.8	.1	.0	7.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.2	.0	.1	.0	.0	.0	.4
3-4	.0	.8	.4	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.8	.5	.1	.0	.0	1.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.3	
1-2	.0	.6	.1	.0	.0	.0	.7	
3-4	.0	.6	.1	.0	.0	.0	.7	
5-6	.0	.2	*	.0	.0	.0	.2	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.5	.5	.0	.0	.0	2.2	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	6.7	.4	.0	.0	.0	14.9	
1-2	3.2	30.8	8.1	.0	.0	.0	42.1	
3-4	.4	14.3	14.7	.8	.0	.0	30.2	
5-6	.0	2.2	6.0	.7	.0	.0	9.0	
7	.0	.1	2.4	.8	.0	.0	3.3	
8-9	.0	.0	.4	.1	.1	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								848
TOT PCT	11.3	54.1	32.0	2.5	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	16.2	16.5	4.9	1.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	718	3
6-7	.0	3.1	9.7	9.6	2.7	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	442	4
8-9	.0	.5	2.3	3.7	1.9	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	5
10-11	.0	1.0	.7	.9	1.1	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	5
12-13	.0	.0	.7	.2	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
>13	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDET	3.6	3.4	4.0	2.6	1.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	259	3
TOTAL	103	408	571	371	147	42	28	12	1	0	0	0	0	0	0	0	0	0	0	1683	4
PCT	6.1	24.2	33.9	22.0	8.7	2.5	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	1.7	.5	.0	.0	.0	.0	3.2	2.1	2.2	.7	.0	.0		.0	91.8
NE	1.5	2.2	.0	.0	.0	.0	.0	3.7	.6	.6	.3	.3	.0		.0	94.6
E	1.3	4.5	.6	.0	.0	.0	.0	6.4	3.0	.6	2.5	.0	.0		.0	87.8
SE	2.0	5.2	.4	.0	.0	.0	.0	7.6	3.8	.8	1.2	.0	.1		.3	86.2
S	1.6	4.3	.9	.0	.0	.0	.0	6.8	5.3	.5	.2	.0	.4		.0	86.9
SW	5.6	3.8	1.1	.0	.0	.0	.0	10.4	5.9	1.6	1.1	.0	.0		.0	81.7
W	3.1	3.1	.0	.0	.0	.0	.0	6.2	7.7	.0	.0	.0	.0		.0	86.2
NW	.0	2.8	.0	.0	.0	.0	.0	2.8	1.4	7.1	.0	.0	.0		.0	88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.8	3.9	.5	.0	.0	.0	.0	6.2	3.4	.9	1.0	*	.1		.1	88.4
TOT OBS:	2435															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	3.6	1.0	.0	.0	.0	.0	6.8	3.0	1.8	1.0	.0	.3		.3	87.1
06&09	2.2	3.9	.7	.0	.0	.0	.0	6.7	4.2	1.7	1.2	.2	.2		.0	85.9
12&15	1.8	3.8	.2	.0	.0	.0	.0	5.8	2.0	.2	1.1	.0	.0		.0	91.2
18&21	.9	3.9	.2	.0	.0	.0	.0	4.9	4.3	.0	.8	.0	.0		.0	90.0
TOT PCT	1.8	3.8	.5	.0	.0	.0	.0	6.0	3.4	.9	1.0	*	.1		.1	88.6
TOT OBS:	2506															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.8	2.3	.1	.0	.0		8.1	8.7	7.9	6.8	8.2	5.1	9.3	8.4	9.2	5.7
NE	1.5	9.4	2.7	*	.0	.0		13.7	8.0	15.6	14.7	14.4	15.2	11.5	12.8	13.3	13.0
E	2.2	11.2	4.6	.5	*	.0		18.4	8.8	18.0	18.7	19.0	22.4	19.3	18.6	15.7	21.0
SE	1.8	15.7	10.7	1.5	*	.0		29.7	10.6	27.3	32.2	31.5	36.7	28.6	28.8	26.7	34.1
S	1.1	6.9	7.3	1.9	*	.0		17.3	12.5	20.2	17.0	16.6	13.1	17.1	16.0	19.0	14.0
SW	.6	2.2	2.3	.5	*	.0		5.5	11.5	5.5	4.3	4.0	2.5	6.1	6.4	7.9	4.2
W	.4	.8	.3	*	.0	.0		1.5	7.3	.9	.9	.9	1.4	1.9	2.3	2.0	1.9
NW	.4	1.4	.4	*	.0	.0		2.3	7.6	1.2	1.5	1.3	1.6	3.1	3.6	2.6	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	3.3	3.8	4.2	2.0	3.0	3.3	3.5	2.1
TOT OBS	1165	4948	2887	429	6	0	9435		9.7	1327	1175	1686	403	1331	1411	1715	387
TOT PCT	12.3	52.4	30.6	4.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	4.3	.7	.0	.0		8.1	8.7	7.4	7.6	8.8	8.6
NE	5.6	7.6	.5	*	.0		13.7	8.0	15.2	14.6	12.2	13.3
E	7.2	9.5	1.6	.1	.0		18.4	8.8	18.3	19.6	18.9	16.7
SE	7.9	17.0	4.5	.3	.0		29.7	10.6	29.6	32.5	28.7	28.1
S	3.6	8.8	4.5	.5	.0		17.3	12.5	18.7	15.9	16.5	18.1
SW	1.5	2.7	1.3	.1	.0		5.5	11.5	5.0	3.7	6.2	7.2
W	.8	.6	.1	.0	.0		1.5	7.3	.9	1.0	2.1	2.0
NW	1.1	1.0	.1	.0	.0		2.3	7.6	1.4	1.4	3.3	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.6	3.7	3.1	3.2
TOT OBS	3223	4863	1262	87	0	9435		9.7	2502	2089	2742	2102
TOT PCT	34.2	51.5	13.4	.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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18.6S 37.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	9.0	53.1	30.3	4.0	.1	.0	9.5	100.0	2502
06&09	3.7	7.6	51.5	32.9	4.2	.1	.0	9.8	100.0	2089
12&15	3.1	9.3	52.3	30.3	5.0	*	.0	9.7	100.0	2742
18&21	3.2	9.8	52.9	29.1	4.9	*	.0	9.5	100.0	2102
TOT	321	844	4948	2887	429	6	0	9.7		9435
PCT	3.4	8.9	52.4	30.6	4.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	1.5	1.8	.6		3.0
NE	6.0	2.8	3.2	1.2		3.4
E	8.0	5.3	4.5	1.8		3.5
SE	10.3	7.6	8.2	2.6		3.8
S	5.1	5.1	5.6	3.3		4.4
SW	1.0	1.9	1.6	1.0		4.7
W	.4	.4	.5	.2		4.3
NW	.7	.4	.3	.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.7	.6	.3	.1		2.2
TOT OBS	743	503	514	214	1974	3.7
TOT PCT	37.6	25.5	26.0	10.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.2	.3	.2	.2	*	.0	.1	7.2	
NE	.0	.1	.1	.6	.7	.6	.2	.2	.0	.0	10.8	
E	.1	.1	.1	.9	1.3	.7	.5	.1	.1	.0	15.8	
SE	.1	*	.2	1.1	2.7	1.7	.8	.2	.1	.1	21.8	
S	.1	.1	.5	1.2	3.1	.9	.4	.1	*	.1	12.5	
SW	.0	.0	.2	.7	.8	.3	.1	.0	.0	.0	3.5	
W	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	*	.1	.1	*	.0	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2.5	
TOT OBS	5	5	22	98	181	93	44	12	4	3	1507	1974
TOT PCT	.3	.3	1.1	5.0	9.2	4.7	2.2	.6	.2	.2	76.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.6	3.1	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	6.0	7.5	7.7	7.8	7.8	7.8	7.8	7.8
* OR >1000	13.4	16.2	16.5	16.7	16.8	16.8	16.8	16.9
* OR >600	17.0	20.9	21.4	21.6	21.7	21.7	21.7	21.8
* OR >300	17.6	21.8	22.3	22.7	22.8	22.8	22.8	22.9
* OR >150	17.8	22.0	22.5	22.9	23.0	23.0	23.1	23.1
* OR > 0	17.9	22.1	22.7	23.0	23.1	23.2	23.3	23.4
TOTAL	359	444	455	462	464	465	467	469

TOTAL NUMBER OF OBS: 2006

PCT FREQ NH <5/8: 76.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.2	17.8	22.5	16.5	9.6	5.8	5.6	4.9	7.0	.1	2089

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.2	
<1/2	NO PCP	*	*	*	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	*	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
1/2<1	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	.0	.0	*	.0	*	.0	*	.0	.0	.1	
	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.1	.0	.1	*	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	*	.2	*	.0	.0	.0	.0	.4	
	PCP	.0	*	.1	.2	.1	.0	.0	.0	.0	.0	.4	
2<5	NO PCP	*	.1	.2	.1	.1	*	.0	*	.0	.0	.5	
	TOT %	*	.1	.2	.3	.2	*	.0	*	.0	.0	.9	
	PCP	.1	.2	.5	1.0	.8	.3	.0	.0	.0	.0	2.9	
5<10	NO PCP	.9	2.2	2.8	3.6	2.7	.9	*	.1	.0	.3	13.6	
	TOT %	1.0	2.4	3.4	4.5	3.6	1.3	*	.1	.0	.3	16.6	
	PCP	.2	.3	.6	.8	.3	.2	.1	*	.0	.0	2.5	
10+	NO PCP	7.1	11.2	15.6	21.7	14.7	4.2	1.2	1.3	.0	2.3	79.2	
	TOT %	7.2	11.4	16.2	22.5	15.0	4.3	1.3	1.3	.0	2.3	81.7	
	TOT OBS												2427
	TOT PCT	8.3	14.0	20.0	27.6	19.0	5.7	1.3	1.5	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	*	*	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.1	.0	*	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.1	.1	.0	*	.0	.0	.0	*	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	*	.0	.0	*	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	*	.0	*	.0	.0	.1	
	0-3	.0	*	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	.0	*	*	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.1	*	.0	.0	.0		.2	
	TOT %	.0	*	*	*	.2	*	.0	*	.0	.0	.3	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	*	.1	.1	*	*	*	.0	*	.0		.3	
	11-21	*	*	.1	.2	.1	*	.0	*	.0		.5	
	22+	.0	*	.0	*	*	.0	.0	.0	.0		.1	
	TOT %	.1	.2	.2	.2	.2	.1	.0	*	.0	.0	1.0	
	0-3	.1	.1	.1	.1	.2	.1	.0	*	.0	.2	1.0	
5<10	4-10	.4	1.2	1.5	1.4	.7	.3	*	.1	.0		5.6	
	11-21	.2	.3	1.1	1.7	1.3	.5	*	.0	.0		5.2	
	22+	.0	.0	.1	.1	.6	.1	*	.0	.0		.9	
	TOT %	.7	1.7	2.7	3.3	2.8	1.1	*	.1	.0	.2	12.6	
	0-3	.7	1.5	2.2	1.2	.8	.4	.3	.3	.0	2.7	10.1	
10+	4-10	4.4	9.1	11.1	13.3	6.1	2.0	.8	1.0	.0		47.8	
	11-21	2.2	2.7	3.2	7.4	6.6	2.1	.2	.3	.0		24.7	
	22+	.1	*	.2	.7	1.6	.4	*	*	.0		3.0	
	TOT %	7.4	13.4	16.7	22.6	15.1	4.9	1.3	1.6	.0	2.7	85.7	
	TOT OBS												4499
	TOT PCT	8.2	15.2	19.8	26.3	18.3	6.1	1.4	1.7	.0	2.9	100.0	

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	1.0	4.6	7.1	3.5	2.5	.8	.2	.0	20.5	79.5	479
06&09	.4	.6	.8	3.9	8.0	4.5	2.1	.4	.0	.4	21.2	78.8	485
12&15	.0	.0	1.3	5.0	9.1	5.6	2.2	.7	.2	.2	24.3	75.7	538
18&21	.2	.2	1.1	5.4	10.9	4.6	2.1	.4	.4	.0	25.0	75.0	571
TOT	5	5	22	99	184	95	46	12	4	3	475	1598	2073
PCT	.2	.2	1.1	4.8	8.9	4.6	2.2	.6	.2	.1	22.9	77.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.0	.2	.9	14.4	84.3	1259
06&09	.5	.2	.2	1.1	12.6	85.4	1001
12&15	.3	.1	.5	1.1	11.8	86.2	1281
18&21	.1	.0	.4	.7	11.8	87.1	1037
TOT	13	3	16	43	579	3918	4572
PCT	.3	.1	.3	.9	12.7	85.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.9	7.8	13.6	78.6	463
06&09	.4	2.4	7.8	14.4	77.8	464
12&15	.0	1.3	7.4	17.9	74.7	525
18&21	.2	1.4	7.6	18.1	74.4	554
TOT	6	35	153	324	1529	2006
PCT	.3	1.7	7.6	16.2	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
83/89	.0	.0	.0	.1	.4	.3	.1	.0	14	.7
80/84	.0	.0	.0	.4	5.0	9.1	4.3	1.7	397	20.5
75/79	.0	.0	.0	1.4	9.4	28.9	19.9	7.6	1298	67.2
70/74	.0	.0	.0	.3	1.8	3.4	3.1	2.6	214	11.1
65/69	.0	.0	.0	.0	.1	.2	.2	.1	9	.5
TOTAL	0	0	0	41	320	807	532	232	1932	100.0
PCT	.0	.0	.0	2.1	16.6	41.8	27.5	12.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.2	.1	.1	*	.1	*	.0	.0
2.5	3.9	5.2	5.2	2.1	.6	.1	.3	.0	.7
5.7	8.2	13.0	19.5	13.6	3.3	.9	1.0	.0	1.9
.3	.7	.9	3.1	3.8	1.6	.1	.3	.0	.3
.0	.1	.0	.1	.2	.0	.0	.0	.0	.1
8.6	12.9	19.3	28.0	19.9	5.5	1.2	1.6	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	81	80	77	73	70	64	76.4	2502
06&09	90	82	80	77	72	70	67	76.4	2076
12&15	95	87	83	78	73	71	66	78.3	2666
18&21	90	86	83	78	74	71	68	78.4	2048
TOT	95	85	82	77	73	70	64	77.4	9292

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	13.0	38.5	34.1	13.4	79	499
06&09	.0	1.7	10.7	41.6	30.0	15.9	79	466
12&15	.0	2.7	20.5	43.3	22.4	11.0	77	526
18&21	.0	3.0	21.0	44.8	23.6	7.7	76	505
TOT	0	42	329	840	547	238	78	1996

PERIOD: (PRIMARY) 1910-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	*	.0	2	.0	.1
7/8	.0	.0	.0	.1	.1	.2	.0	8	.0	.4
6	.0	.0	.1	.1	.2	.2	.0	14	.0	.6
5	.0	.0	.1	.1	.4	.2	*	19	.0	.9
4	.0	.0	*	.5	.7	.1	*	31	.0	1.4
3	.0	.0	.2	.7	1.2	.1	.0	50	.0	2.3
2	.0	*	.1	2.0	1.9	*	.0	89	.0	4.1
1	.0	*	.9	5.1	2.2	*	.0	182	.1	8.2
0	.1	.2	2.2	11.2	2.0	*	.0	344	.4	15.3
-1	*	.2	3.9	13.7	.8	.0	.0	409	.2	18.5
-2	.0	.3	6.4	10.5	.9	.0	.0	397	.2	17.9
-3	.0	.2	5.0	5.3	.1	.0	.0	232	.1	10.5
-4	.0	.7	4.4	3.5	.1	.0	.0	190	*	8.6
-5	.0	.4	2.9	1.0	.0	.0	.0	94	*	4.2
-6	.0	.3	1.9	.2	.0	.0	.0	54	.0	2.5
-7/-8	.0	.6	1.4	.1	.0	.0	.0	47	.0	2.1
-9/-10	.1	.5	.3	.1	.0	.0	.0	21	.0	1.0
-11/-13	*	.1	.2	.0	.0	.0	.0	7	.0	.3
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	8	78	655	1192	233	23	2	2191	25	2166
PCT	.4	3.6	29.9	54.4	10.6	1.0	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	1.8	.3	.0	.0	.0	2.0
3-4	.0	.9	.5	.0	.0	.0	1.5
5-6	.0	.1	.9	.0	.0	.0	1.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	2.0	.0	.0	.0	5.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	1.9
1-2	.4	4.4	.8	.0	.0	.0	5.5
3-4	.2	2.6	.6	.0	.0	.0	3.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	8.5	1.7	.0	.0	.0	11.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.0
1-2	1.4	6.6	1.5	.0	.0	.0	9.5
3-4	.1	2.0	1.5	.1	.0	.0	3.8
5-6	.0	1.0	.8	.1	.0	.0	2.0
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	11.1	4.2	.3	.0	.0	17.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.3	.0	.0	.0	.0	2.7
1-2	.6	9.2	1.7	.0	.0	.0	11.4
3-4	.1	3.1	5.0	.0	.0	.0	8.2
5-6	.0	1.1	2.7	.5	.0	.0	4.4
7	.0	.4	2.3	.2	.0	.0	2.9
8-9	.0	.0	1.3	.3	.0	.0	1.6
10-11	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	16.1	13.2	1.4	.0	.0	31.8

MAY

PERIOD: (OVER-ALL) 1963-1973 AREA 0008 VITORIA NE
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.1	.0	.0	.0	.8
1-2	.4	3.1	1.8	.0	.0	.0	5.3
3-4	.0	2.4	4.4	.6	.0	.0	7.5
5-6	.0	.6	4.1	.8	.0	.0	5.5
7	.0	.1	.9	.6	.0	.0	1.6
8-9	.0	.0	.6	.8	.0	.0	1.4
10-11	.0	.0	.3	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.8	12.2	3.4	.1	.0	23.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	*	1.3	.3	.0	.0	.0	1.6
3-4	.0	.6	1.1	.0	.0	.0	1.7
5-6	.0	.2	.5	.0	.0	.0	.7
7	.0	.0	.2	*	.0	.0	.2
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.6	2.2	.3	.0	.0	5.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.1	.6	.0	.0	.0	.0	.7
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.1	.0	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.2	*	.0	.0	.0	.2	
5-6	.0	*	.0	.0	.0	.0	*	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	.2	.0	.0	.0	1.3	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	6.8	.1	.0	.0	.0	13.7	
1-2	3.3	27.1	6.2	.0	.0	.0	36.6	
3-4	.4	11.6	13.1	.7	.0	.0	25.7	
5-6	.0	3.0	9.1	1.4	.0	.0	13.4	
7	.0	.7	3.7	.9	.0	.0	5.3	
8-9	.0	.0	2.3	1.4	.0	.0	3.7	
10-11	.0	.0	.4	.7	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.2	.1	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.5	49.1	35.0	5.3	.1	.0	100.0	812

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	11.8	15.6	5.1	1.5	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	621	3
6-7	.1	2.7	10.0	11.9	4.1	1.3	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	511	5
8-9	.0	.6	2.1	3.5	3.1	1.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	6
10-11	.0	.4	1.0	.7	.9	.6	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	7
12-13	.0	.0	.6	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
>13	.0	.0	.0	.1	.2	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
INDET	3.3	2.4	2.9	2.7	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	212	3
TOTAL	106	291	526	394	177	75	24	20	19	0	0	0	0	0	0	0	0	0	0	1632	4
PCT	6.5	17.8	32.2	24.1	10.8	4.6	1.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	1.6	2.1	.0	.0	.0	.0	.0	3.7	2.9	1.4	1.8	.0	.0		.0	90.2
NE	.7	2.4	.5	.0	.0	.0	.0	3.6	2.2	.3	1.9	.0	.0		.0	92.0
E	1.2	2.6	.5	.0	.0	.0	.0	4.3	4.1	.2	1.2	.0	.1		.0	90.1
SE	.9	3.1	.8	.0	.0	.0	.0	4.7	4.1	.2	.2	.0	*		.2	90.7
S	2.0	1.3	.3	.0	.0	.0	.0	3.7	5.3	.3	.0	.0	.0		.0	90.7
SW	1.4	.7	.9	.0	.0	.0	.0	2.0	4.8	.0	.0	.0	.9		.0	92.3
W	.0	7.8	.0	.0	.0	.0	.0	7.8	6.3	2.3	1.6	.0	.0		.0	82.0
NW	.8	4.0	.0	.0	.0	.0	.0	4.9	1.6	2.4	.8	.0	.0		.0	90.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.7	.0	.0	.0	.0	1.7	8.3	.0	.0	.0	.0		.0	90.0
TOT PCT	1.1	2.4	.5	.0	.0	.0	.0	4.1	4.0	.4	.8	.0	.1		*	90.6
TOT OBS:	2369															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.5	2.1	.3	.0	.0	.0	.0	2.9	2.6	.7	1.2	.0	.0		.0	92.6
06&09	.5	1.9	.7	.0	.0	.0	.0	3.1	5.0	.9	.7	.0	.2		.0	90.2
12&15	1.6	3.1	.2	.0	.0	.0	.0	4.8	4.8	.0	1.1	.0	.2		.2	88.9
18&21	1.8	2.6	1.1	.0	.0	.0	.0	5.2	3.6	.0	.5	.0	.0		.0	90.8
TOT PCT	1.1	2.4	.6	.0	.0	.0	.0	4.0	4.0	.4	.9	.0	.1		*	90.6
TOT OBS:	2422															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	5.4	2.8	.2	.0	.0		9.4	9.1	9.0	8.6	8.6	5.9	10.6	9.7	11.1	7.2
NE	1.6	10.2	3.3	.1	.0	.0		15.2	8.2	17.8	17.4	15.2	13.5	14.7	13.6	15.4	9.2
E	2.0	12.6	7.2	.7	*	.0		22.5	9.5	20.5	23.9	24.1	30.0	19.9	22.1	20.4	29.4
SE	2.1	13.9	10.7	1.5	*	*		28.3	10.8	25.9	29.1	29.7	35.2	27.3	29.1	25.0	34.4
S	.9	5.0	5.0	1.4	.1	.0		12.3	12.3	14.9	12.1	11.8	8.1	13.1	11.1	12.8	11.1
SW	.4	2.1	1.7	.5	*	.0		4.6	11.8	4.4	3.2	3.7	1.3	6.5	4.6	6.3	2.8
W	.4	.9	.2	*	*	.0		1.6	7.3	.6	1.0	.9	1.0	2.3	2.7	2.1	1.1
NW	.3	1.7	.6	.1	*	.0		2.6	8.6	1.3	1.6	1.9	2.0	3.5	4.0	3.2	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	5.6	3.4	4.1	2.9	2.1	3.1	3.6	2.7
TOT OBS	1140	4845	2931	416	13	1	9346		9.7	1310	1157	1667	382	1329	1422	1675	404
TOT PCT	12.2	51.8	31.4	4.5	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	5.0	.9	*	.0		9.4	9.1	8.8	8.1	10.1	10.4
NE	6.4	8.0	.8	*	.0		15.2	8.2	17.6	14.9	14.1	14.2
E	8.0	11.9	2.5	.1	.0		22.5	9.5	22.1	25.2	21.1	22.2
SE	7.7	15.3	5.0	.3	*		28.3	10.8	27.4	30.7	28.3	26.9
S	3.1	5.7	3.2	.3	*		12.3	12.3	13.6	11.1	12.1	12.5
SW	1.1	2.4	1.0	.1	.0		4.6	11.8	3.9	3.2	5.5	5.6
W	.8	.6	.1	*	.0		1.6	7.3	.7	.9	2.5	1.9
NW	1.1	1.3	.2	*	.0		2.6	8.6	1.4	1.9	3.8	3.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	4.5	3.9	2.6	3.4
TOT OBS	3288	4699	1275	79	5	9346		9.7	2467	2049	2751	2079
TOT PCT	35.2	50.3	13.6	.8	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.5	9.2	54.2	28.3	3.8	.1	.0	9.2	100.0	2467
06&09	3.9	7.7	53.1	30.6	4.4	.2	*	9.7	100.0	2049
12&15	2.6	8.4	50.1	34.0	4.9	.1	.0	10.0	100.0	2751
18&21	3.4	9.2	50.2	32.3	4.7	.1	.0	9.8	100.0	2079
TOT	335	805	4845	2931	416	13	1	9.7		9346
PCT	3.6	8.6	51.8	31.4	4.5	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.7	1.7	.3		2.9
NE	6.5	3.9	3.6	.9		3.3
E	9.2	6.9	6.7	1.9		3.6
SE	9.5	8.8	7.7	1.6		3.6
S	3.3	2.9	5.1	2.1		4.5
SW	1.0	1.2	2.0	.7		4.7
W	.4	.3	.6	.2		4.7
NW	1.4	.6	.7	.1		3.1
VAR	.0	.0	.0	.0		.0
CALM	1.4	.6	.4	.2		2.6
TOT OBS	714	526	556	159	1955	3.7
TOT PCT	36.5	26.9	28.4	8.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.2	.3	.1	.1	.1	.1	.1	6.5	
NE	.1	.0	.1	.4	1.0	.4	.3	.1	*	.1	12.3	
E	.1	.1	.2	1.0	1.4	1.1	.7	.2	.0	.0	19.7	
SE	.1	.1	.7	1.1	2.1	1.1	.5	.2	.0	.0	21.8	
S	.0	*	.5	1.3	1.9	.9	.7	.1	.1	.0	8.0	
SW	.0	.0	.1	.3	.8	.1	.3	.0	.0	.0	3.4	
W	.1	.0	.0	.1	.1	*	.2	.1	.0	.1	1.0	
NW	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	2.1	
TOT OBS	7	4	30	96	161	78	55	12	3	5	1504	1955
TOT PCT	.4	.2	1.5	4.9	8.2	4.0	2.8	.6	.2	.3	76.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	3.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	6.3	7.7	7.9	7.9	7.9	7.9	7.9	7.9
* OR >1000	13.2	15.9	16.1	16.1	16.1	16.1	16.1	16.1
* OR >600	17.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9
* OR >300	17.9	22.0	22.4	22.5	22.5	22.5	22.5	22.5
* OR >150	18.1	22.2	22.6	22.7	22.7	22.7	22.7	22.7
* OR > 0	18.2	22.4	22.9	22.9	22.9	23.0	23.0	23.0
TOTAL	361	444	453	454	454	455	455	456

TOTAL NUMBER OF OBS: 1981

PCT FREQ NH <5/8: 77.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	16.8	21.0	18.0	10.4	7.4	6.1	4.2	5.2 .1	2062

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	PCP	.0	.1	.1	.1	.1	*	.0	.0	.0	.0	.3	
2<5	NO PCP	.1	.1	.3	*	*	*	.1	.2	.0	.0	.9	
	TOT %	.1	.2	.4	.1	.1	*	.1	.2	.0	.0	1.1	
	PCP	.1	.1	.5	.6	.3	.1	*	.1	.0	*	1.8	
5<10	NO PCP	1.5	2.4	3.8	3.3	1.5	.2	.2	.2	.0	.4	13.5	
	TOT %	1.5	2.6	4.2	4.0	1.8	.3	.2	.3	.0	.4	15.3	
	PCP	.2	.4	.5	.5	.1	*	.1	*	.0	.0	1.8	
10+	NO PCP	6.2	12.5	20.4	22.2	10.7	4.4	1.0	2.1	.0	2.1	81.5	
	TOT %	6.4	12.9	20.9	22.7	10.8	4.4	1.0	2.1	.0	2.1	83.3	
	TOT OBS												2366
	TOT PCT	8.1	15.6	25.6	26.9	12.7	4.7	1.4	2.6	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	.1	.0	*	*	.0	.0	*	.0		.2	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	*	.1	*	.0	.0	*	.0	.0	.2	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
2<5	4-10	*	.1	.2	.1	*	*	.1	.1	.0		.5	
	11-21	*	.1	.1	*	.1	*	*	*	.0		.4	
	22+	.0	.0	.0	*	*	*	.0	.0	.0		*	
	TOT %	.1	.1	.3	.2	.1	*	.1	.1	.0	.0	1.0	
	0-3	.2	.2	.2	.1	*	*	*	*	.0	.3	1.1	
5<10	4-10	.6	1.3	1.5	1.4	.5	.1	.1	.1	.0		5.6	
	11-21	.3	.3	1.3	1.5	.7	.2	*	.1	.0		4.4	
	22+	.1	.1	.1	.1	.3	*	.0	*	.0		.6	
	TOT %	1.1	1.9	3.0	3.2	1.5	.4	.1	.2	.0	.3	11.6	
	0-3	.8	1.3	1.8	1.4	.6	.3	.4	.2	.0	2.7	9.4	
10+	4-10	4.6	9.6	11.9	13.0	4.9	2.2	.8	1.7	.0		48.8	
	11-21	2.8	3.1	5.2	7.9	4.9	1.9	.2	.6	.0		26.5	
	22+	.1	.1	.3	.6	1.0	.3	*	*	.0		2.3	
	TOT %	8.3	14.1	19.2	22.9	11.4	4.6	1.4	2.5	.0	2.7	87.1	
	TOT OBS												4490
	TOT PCT	9.4	16.2	22.5	26.3	13.0	5.0	1.6	2.9	.0	3.0	100.0	

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	1.1	3.4	6.4	3.0	3.0	1.1	.0	.4	18.9	81.1	472
06&09	.6	.0	2.0	4.1	7.6	3.5	2.0	.4	.8	.4	21.5	78.5	489
12&15	.0	.2	1.1	5.8	9.7	4.7	2.6	.9	.0	.0	25.0	75.0	535
18&21	.4	.4	1.6	5.3	8.1	4.0	3.3	.0	.0	.4	23.4	76.6	546
TOT	7	4	30	96	163	78	56	12	4	6	456	1586	2042
PCT	.3	.2	1.5	4.7	8.0	3.8	2.7	.6	.2	.3	22.3	77.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.2	1.4	12.3	86.2	1257
06&09	.1	.1	.2	1.2	12.7	85.7	1001
12&15	.0	.0	.3	.6	11.6	87.5	1269
18&21	.2	.0	.1	.7	10.4	88.6	1015
TOT	3	1	9	43	534	3952	4542
PCT	.1	*	.2	.9	11.8	87.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	1.8	6.6	13.8	79.6	457
06&09	.6	3.2	7.9	15.3	76.9	471
12&15	.0	1.3	7.6	18.1	74.3	525
18&21	.4	2.5	8.3	16.1	75.6	528
TOT	7	43	151	315	1515	1981
PCT	.4	2.2	7.6	15.9	76.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.3	.4	.2	.1	.0	17	.9
80/84	.0	.0	.0	.1	1.5	2.8	1.1	.5	112	5.9
75/79	.0	.0	.1	.9	8.4	31.0	16.7	6.0	1201	63.1
70/74	.0	.0	.1	.7	4.9	8.0	10.2	5.4	558	29.3
65/69	.0	.0	.0	.1	.0	.2	.3	.3	14	.7
TOTAL	0	0	3	39	290	802	537	231	1902	100.0
PCT	.0	.0	.2	2.1	15.2	42.2	28.2	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.3	.1	.1	*	.1	.1	.1	.0	.1
1.0	1.0	1.5	.9	.6	.2	.0	.3	.0	.3
5.7	10.5	16.6	17.9	5.6	2.5	.7	1.7	.0	1.9
1.1	3.0	6.5	8.7	6.4	2.1	.4	.7	.0	.5
.0	.1	.1	.1	.2	.1	*	.0	.0	.0
7.9	14.9	24.9	27.8	12.8	5.0	1.1	2.8	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	79	78	75	72	68	55	74.8	2452
06&09	87	80	78	75	71	68	62	74.7	2039
12&15	94	86	82	76	72	69	63	76.5	2703
18&21	90	85	82	77	73	70	62	76.9	2013
TOT	94	84	81	76	72	68	55	75.7	9207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.1	10.9	41.6	33.5	11.9	79	478
06&09	.0	1.5	12.2	37.8	36.7	11.8	79	466
12&15	.0	2.1	16.0	42.4	25.6	13.9	78	524
18&21	.0	3.1	21.6	46.0	18.6	10.7	76	485
TOT	0	43	298	820	555	237	78	1953

PERIOD: (PRIMARY) 1910-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
7/8	.0	.0	.0	.0	*	*	.1	.4	14	.0	.7
6	.0	.0	.0	.0	.3	*	.2	*	14	.0	.7
5	.0	.0	.0	.0	.1	.3	.3	.1	18	.0	.9
4	.0	.0	*	.0	.6	.6	.6	.0	39	*	1.8
3	.0	.0	.0	.0	.5	1.1	.7	.1	49	*	2.3
2	.0	.0	.0	.2	1.5	2.8	.5	.0	104	.1	4.8
1	.0	.0	.0	.1	1.9	4.0	.5	.0	137	.1	6.4
0	.0	.0	*	.4	7.0	7.7	.6	.0	334	.1	15.7
-1	.0	.0	.0	.8	10.4	7.2	.1	.0	390	.3	18.2
-2	.0	.0	.0	1.3	9.7	3.8	.2	.0	317	.1	14.9
-3	.0	.0	*	1.3	8.0	2.6	.0	.0	251	.0	11.9
-4	.0	.0	*	1.6	5.2	1.2	.0	.0	171	.0	8.1
-5	.0	.0	.1	1.3	3.8	.6	.0	.0	123	.0	5.8
-6	.0	.0	.0	.9	2.0	.1	.0	.0	63	.0	3.0
-7/-8	.0	.0	.3	.9	1.1	.1	.0	.0	53	.0	2.5
-9/-10	.0	.0	.0	.6	.2	.0	.0	.0	17	.0	.8
-11/-13	.0	*	.1	.2	.0	.0	.0	.0	8	.0	.4
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	3	15	203	1108	682	79	18	2109	18	2091
PCT	*	.1	.7	9.6	52.5	32.3	3.7	.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.1
1-2	.2	1.4	.4	.0	.0	.0	2.1
3-4	.0	.5	.7	.0	.0	.0	1.2
5-6	.0	.1	1.1	.0	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.7	2.4	.0	.0	.0	5.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7
1-2	.4	5.3	.2	.0	.0	.0	5.9
3-4	.2	3.1	2.1	.0	.0	.0	5.3
5-6	.0	.3	1.0	.0	.0	.0	1.3
7	.0	.3	.2	*	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.3	3.6	*	.0	.0	14.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.2	.3	.0	.0	.0	2.4
1-2	.5	7.4	.7	.0	.0	.0	8.6
3-4	.1	4.6	3.6	.0	.0	.0	8.4
5-6	.0	1.7	2.0	.1	.0	.0	3.9
7	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.2	.0	.0	.5
12	.0	.0	.0	.1	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	15.0	7.4	.8	.1	.0	24.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.1	8.3	1.5	.0	.0	.0	10.0
3-4	.2	4.8	6.3	.0	.0	.0	11.2
5-6	.0	.6	2.5	.1	.0	.0	3.3
7	.0	*	1.0	.4	.0	.0	1.4
8-9	.0	.3	.3	.3	.0	.0	.9
10-11	.0	.0	.3	.6	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.8	12.0	1.7	.0	.0	28.9

JUNE

PERIOD: (OVER-ALL) 1963-1973 AREA 0008 VITORIA NE

TABLE 18 (CONT) 18.6S 37.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7	*	*	.0	.0	.0	.0	.1
1-2	.1	2.7	.4	.0	.0	.0	3.2	.1	1.4	.3	.0	.0	.0	1.8
3-4	.2	.8	3.5	.0	.0	.0	4.6	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.5	2.1	.0	.0	.0	2.5	.0	.1	1.2	.0	.0	.0	1.4
7	.0	.1	.8	.4	.0	.0	1.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.1	.1	.2	.0	.0	.5	.0	*	.0	*	.0	.0	.1
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.8	7.0	1.1	.0	.0	13.4	.2	2.2	2.1	.2	.0	.0	4.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.7	.0	.0	.0	.0	.8	.3	.3	.0	.0	.0	.0	.6	
1-2	.0	.2	.1	.0	.0	.0	.4	.0	.6	.3	.0	.0	.0	.8	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	*	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.1	.1	.0	.0	.0	1.3	.3	1.4	.6	.0	.0	.0	2.3	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	5.5	.3	.0	.0	.0	12.9	
1-2	1.8	27.6	3.7	.0	.0	.0	33.1	
3-4	.7	14.4	16.8	.0	.0	.0	31.9	
5-6	.0	3.7	9.8	.3	.0	.0	13.9	
7	.0	.4	2.6	1.1	.0	.0	4.2	
8-9	.0	.4	.6	.7	.0	.0	1.7	
10-11	.0	.0	.7	1.1	.0	.0	1.8	
12	.0	.0	.0	.1	.1	.0	.3	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	52.1	34.5	3.7	.1	.0	100.0	722

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	9.4	17.4	7.0	2.0	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	638	3
6-7	.3	2.5	10.5	10.8	4.2	1.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	482	5
8-9	.1	.6	1.9	3.9	3.7	.9	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	6
10-11	.0	.7	.8	.5	.5	.5	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
12-13	.0	.0	.6	.3	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
>13	.0	.0	.0	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	2.6	2.0	3.3	1.5	1.1	.2	.1	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	4
TOTAL	96	241	544	380	187	68	32	14	14	3	0	0	0	0	0	0	0	0	0	1579	4
PCT	6.1	15.3	34.5	24.1	11.8	4.3	2.0	.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.0	.5	.0	.0	.0	.0	.8	.9	.5	1.4	.0	.0	.0		96.4
NE	.7	2.1	.8	.0	.0	.0	.0	3.4	2.1	.3	.9	.0	.2	.0		93.1
E	1.1	3.5	.7	.0	.0	.0	.0	5.1	2.6	.2	1.0	.0	.0	.2		90.9
SE	2.8	3.9	.7	.0	.0	.0	.0	7.4	3.3	.3	.4	.0	.1	.1		88.5
S	1.9	4.3	1.1	.0	.0	.0	.0	7.3	5.6	.2	.0	.0	.0	.0		86.9
SW	2.5	2.5	1.6	.0	.0	.0	.0	6.6	6.6	.3	.0	.0	1.1	.0		85.5
W	11.7	.0	3.3	.0	.0	.0	.0	15.0	.0	.0	.0	.0	.0	.0		85.0
NW	.5	.0	1.0	.0	.0	.0	.0	1.4	.0	.0	2.9	.0	.0	.0		95.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	1.6	3.0	.8	.0	.0	.0	.0	5.3	3.0	.3	.7	.0	.1	.1		90.6
TOT OBS:	2532															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	3.2	1.0	.0	.0	.0	.0	5.3	2.9	.5	.6	.0	.2	.0		90.6
06&09	2.0	3.5	.7	.0	.0	.0	.0	6.2	3.5	.8	.8	.0	.0	.0		88.7
12&15	1.7	3.7	1.0	.0	.0	.0	.0	6.3	2.3	.0	.7	.0	.3	.1		90.3
18&21	1.3	2.1	.6	.0	.0	.0	.0	3.9	3.0	.0	.7	.0	.1	.1		92.1
TOT PCT	1.6	3.1	.8	.0	.0	.0	.0	5.4	2.9	.3	.7	.0	.2	.1		90.5
TOT OBS:	2599															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	4.4	2.5	.2	*	.0		8.0	9.3	7.6	7.4	7.2	4.9	9.0	8.1	9.7	6.8
NE	1.7	10.0	4.1	.2	*	.0		16.0	8.7	18.5	17.0	17.1	13.7	16.5	12.2	16.1	13.7
E	1.9	13.8	7.8	.7	*	.0		24.2	9.7	22.8	24.0	24.9	28.6	23.9	26.2	22.0	25.4
SE	1.9	13.8	11.1	2.1	.1	.0		29.0	11.3	27.1	29.2	29.2	35.5	27.5	30.6	27.2	35.5
S	1.1	4.5	5.5	1.7	.1	*		13.0	12.8	15.3	13.6	13.0	10.3	12.1	11.5	13.8	11.4
SW	.3	1.6	1.5	.3	*	*		3.8	11.7	4.0	2.8	2.9	1.5	4.1	4.2	5.4	1.6
W	.2	.5	.1	*	*	.0		.8	7.7	.2	.7	.5	.7	1.2	1.6	.7	.2
NW	.4	1.1	.5	*	.0	.0		2.0	7.9	1.1	.6	1.7	2.1	3.2	3.1	2.3	1.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	3.4	4.6	3.6	2.7	2.6	2.6	2.9	3.7
TOT OBS	1094	4633	3080	479	25	2	9313		10.1	1298	1096	1638	411	1325	1447	1696	402
TOT PCT	11.7	49.7	33.1	5.1	.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	4.3	.9	*	.0		8.0	9.3	7.5	6.7	8.5	9.1
NE	5.8	9.1	1.0	*	.0		16.0	8.7	17.8	16.4	14.3	15.6
E	7.6	13.8	2.7	.1	.0		24.2	9.7	23.4	25.6	25.1	22.7
SE	7.2	15.7	5.7	.5	.0		29.0	11.3	28.0	30.4	29.1	28.8
S	3.1	5.7	3.7	.5	*		13.0	12.8	14.5	12.4	11.8	13.3
SW	.9	1.9	.9	.1	*		3.8	11.7	3.5	2.7	4.1	4.7
W	.4	.3	*	*	.0		.8	7.7	.4	.6	1.4	.6
NW	1.0	.9	.1	.0	.0		2.0	7.9	.9	1.8	3.1	2.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	3.9	3.4	2.6	3.1
TOT OBS	2988	4818	1389	115	3	9313		10.1	2394	2049	2772	2098
TOT PCT	32.1	51.7	14.9	1.2	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.9	8.5	52.1	30.8	4.5	.2	.0	9.8	100.0	2394
06&09	3.4	8.6	51.6	31.3	4.7	.3	.0	9.8	100.0	2049
12&15	2.6	8.2	48.6	34.7	5.7	.3	.0	10.4	100.0	2772
18&21	3.1	9.0	46.8	35.2	5.6	.3	.1	10.4	100.0	2098
TOT	300	794	4633	3080	479	25	2	10.1		9313
PCT	3.2	8.5	49.7	33.1	5.1	.3	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	2.1	1.5	.5		2.9
NE	7.4	3.4	4.6	1.2		3.4
E	7.9	6.7	7.4	2.7		4.0
SE	7.4	7.8	10.4	2.7		4.3
S	2.3	2.7	5.6	2.0		5.0
SW	.7	.9	1.5	.5		4.8
W	.2	.1	.3	.0		4.3
NW	.8	.3	.6	.1		3.5
VAR	.0	.0	.0	.0		.0
CALM	.8	.5	.1	*		2.7
TOT OBS	650	548	660	201	2059	4.0
TOT PCT	31.6	26.6	32.1	9.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.5	.2	.1	.1	.0	*	7.1	
NE	.0	.0	.2	.4	1.4	.7	.3	.1	*	.1	15.2	
E	.1	*	.2	1.1	3.0	1.0	.7	.2	*	.1	18.2	
SE	.1	*	.2	2.0	4.0	1.7	.9	.1	.1	*	19.1	
S	*	.0	.2	1.0	2.2	.9	.4	.2	*	.0	7.7	
SW	.0	.0	*	.3	.7	.2	.2	*	*	.0	2.1	
W	.0	.0	.0	.0	.0	.1	*	*	.0	.0	.4	
NW	.0	.0	.0	.0	.1	.1	*	.0	.0	*	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1.4	
TOT OBS	6	1	17	104	246	104	56	15	5	7	1498	2059
TOT PCT	.3	*	.8	5.1	11.9	5.1	2.7	.7	.2	.3	72.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
▪ OR >5000	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
▪ OR >3500	3.4	4.0	4.1	4.2	4.2	4.2	4.2	4.2
▪ OR >2000	7.5	8.7	9.0	9.1	9.1	9.2	9.2	9.2
▪ OR >1000	16.6	19.6	20.5	20.6	20.7	20.8	20.8	20.8
▪ OR >600	20.5	24.2	25.4	25.6	25.7	25.8	25.8	25.8
▪ OR >300	21.0	24.9	26.2	26.4	26.5	26.6	26.6	26.6
▪ OR >150	21.0	25.0	26.3	26.5	26.6	26.6	26.6	26.6
▪ OR > 0	21.1	25.2	26.5	26.8	26.9	26.9	26.9	26.9
TOTAL	443	528	557	562	564	565	565	565

TOTAL NUMBER OF OBS: 2099

PCT FREQ NH <5/8: 73.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	15.3	20.1	16.9	12.2	6.6	7.2	6.5	6.8	*	2196

PERIOD: (PRIMARY) 1909-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.2	
	PCP	*	.0	*	*	.1	*	.0	*	.0	.0	.2	
1<2	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	*	.1	*	.0	*	.0	.0	.3	
	PCP	*	.1	.1	.3	.1	.0	.0	.0	.0	.0	.5	
2<5	NO PCP	.1	.1	.2	.4	.3	.1	.1	.0	.0	.0	1.3	
	TOT %	.1	.2	.3	.7	.4	.1	.1	.0	.0	.0	1.9	
	PCP	*	.2	.6	.9	.4	.1	.1	*	.0	.0	2.3	
5<10	NO PCP	1.1	2.5	3.1	3.4	1.9	.5	.1	.4	.0	.1	13.2	
	TOT %	1.1	2.8	3.7	4.3	2.3	.6	.1	.4	.0	.1	15.4	
	PCP	.0	.4	.6	.8	.4	.1	.0	.0	.0	.0	2.2	
10+	NO PCP	7.2	15.4	20.0	22.1	9.4	2.8	.4	1.6	.0	1.3	80.1	
	TOT %	7.2	15.8	20.5	22.9	9.8	2.9	.4	1.6	.0	1.3	82.3	
	TOT OBS												2532
	TOT PCT	8.5	18.8	24.6	28.1	12.5	3.6	.6	2.0	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	*	*	.0	.0	.0	.0	*	.0	*	.1	
1<2	4-10	*	.1	*	.1	*	*	.0	*	.0		.2	
	11-21	.0	.0	*	.0	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	*	.1	.1	*	*	*	.0	*	.4	
	0-3	*	.0	*	*	*	.0	.0	.0	.0	.1	.2	
2<5	4-10	*	.1	.1	.2	.1	*	*	.0	.0		.4	
	11-21	*	*	.2	.3	.2	.1	*	*	.0		.9	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.3	.6	.4	.1	*	*	.0	.1	1.7	
	0-3	.1	.2	.2	.1	.1	*	*	.1	.0	.1	.8	
5<10	4-10	.4	1.0	1.5	1.8	.6	.3	.1	.1	.0		5.8	
	11-21	.3	.7	1.0	1.5	1.0	.2	*	.1	.0		4.8	
	22+	*	*	.1	.4	.4	.1	.0	.0	.0		1.0	
	TOT %	.9	2.0	2.7	3.7	2.0	.6	.1	.2	.0	.1	12.4	
	0-3	.7	1.5	1.7	1.4	.7	.3	.1	.2	.0	2.1	8.7	
10+	4-10	3.8	8.9	13.2	11.6	4.2	1.7	.4	.9	.0		44.6	
	11-21	2.4	4.0	6.3	8.9	5.3	1.5	.1	.4	.0		28.8	
	22+	.2	.2	.2	1.2	1.2	.3	.0	*	.0		3.3	
	TOT %	7.1	14.5	21.3	23.1	11.5	3.7	.6	1.5	.0	2.1	85.4	
	TOT OBS												4742
	TOT PCT	8.1	16.7	24.4	27.6	13.9	4.5	.7	1.8	.0	2.2	100.0	

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.2	1.2	4.2	11.0	2.8	2.2	.6	.2	.0	22.4	77.6	500
06&09	.0	.0	.4	4.9	10.0	5.1	3.7	.6	.2	.2	25.2	74.8	489
12&15	.3	.0	1.0	5.9	12.7	5.1	2.9	1.2	.5	.3	30.1	69.9	589
18&21	.7	.0	.5	4.4	11.6	6.2	2.2	.5	.2	.7	27.0	73.0	593
TOT	6	1	17	106	248	106	59	16	6	7	572	1599	2171
PCT	.3	*	.8	4.9	11.4	4.9	2.7	.7	.3	.3	26.3	73.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.3	1.6	14.0	83.8	1305
06&09	.1	.0	.3	1.7	13.6	84.3	1044
12&15	.0	.1	.3	2.0	11.2	86.4	1376
18&21	.0	.0	.6	1.5	11.2	86.8	1085
TOT	2	4	17	82	600	4105	4810
PCT	*	.1	.4	1.7	12.5	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.7	6.4	16.4	77.2	483
06&09	.0	.4	7.3	19.1	73.6	466
12&15	.3	1.7	9.5	21.2	69.3	580
18&21	.7	1.2	6.8	21.1	72.1	570
TOT	6	27	159	411	1529	2099
PCT	.3	1.3	7.6	19.6	72.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.0	.0	.0	.0	1	*
85/89	.0	.0	*	.0	.0	.0	.0	.0	1	*
80/84	.0	.0	.0	.2	1.0	.5	.5	.1	47	2.3
75/79	.0	.0	*	.9	7.1	21.4	8.8	3.1	835	41.4
70/74	.0	.0	.1	1.8	9.5	17.1	17.3	6.7	1059	52.5
65/69	.0	.0	.0	.2	.4	.8	1.1	.9	73	3.6
TOTAL	0	0	4	67	365	802	558	220	2016	100.0
PCT	.0	.0	.2	3.3	18.1	39.8	27.7	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.1	.6	.8	.5	.1	.1	.0	*	.0	.1
4.9	9.1	11.8	10.0	3.3	.9	.1	.9	.0	.4
3.0	8.4	11.5	16.8	8.5	2.2	.3	1.0	.0	.8
.1	.4	.4	1.1	1.2	.5	.0	.0	.0	.0
8.1	18.5	24.5	28.3	13.1	3.7	.4	1.9	.0	1.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	78	76	73	69	67	60	73.3	2383
06&09	84	79	77	73	69	67	65	73.1	2029
12&15	90	82	80	75	70	68	65	75.0	2731
18&21	91	83	80	75	71	69	63	75.3	2042
TOT	91	82	79	74	70	68	60	74.2	9185

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.1	13.2	41.4	32.1	11.1	78	514
06&09	.0	2.5	13.7	33.8	36.6	13.4	79	476
12&15	.0	4.6	21.0	37.9	26.2	10.4	76	568
18&21	.0	4.4	23.2	45.5	18.4	8.5	75	517
TOT	0	72	372	824	583	224	77	2075

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.1	*	*	.1	*	7	.0	.3
9/10	.0	*	.0	*	.2	*	.0	7	.0	.3
7/8	.0	*	.1	.2	.1	.0	.0	11	*	.4
6	.0	.0	.1	.2	.1	.0	.0	8	.0	.4
5	.0	.0	.3	.2	.2	.0	.0	16	.0	.7
4	.0	.0	.6	.9	.4	.0	.0	42	.0	1.9
3	.0	.1	.8	1.3	.2	.0	.0	57	*	2.5
2	.0	.2	2.2	2.4	.1	.0	.0	109	*	4.8
1	.0	.2	4.1	2.6	*	.0	.0	156	.1	6.9
0	.0	1.3	9.3	3.8	.1	.0	.0	325	.1	14.4
-1	*	2.1	15.0	1.9	*	.0	.0	427	.3	18.8
-2	.2	3.3	11.7	1.0	*	.0	.0	363	.2	16.0
-3	.1	3.7	8.1	.4	.0	.0	.0	274	.0	12.2
-4	.1	3.7	3.8	.3	.0	.0	.0	179	.0	8.0
-5	.4	2.9	2.5	.0	.0	.0	.0	131	.0	5.9
-6	.2	1.8	.6	.0	.0	.0	.0	59	.0	2.6
-7/-8	.3	1.6	.4	.0	.0	.0	.0	53	.0	2.4
-9/-10	.2	.3	.0	.0	.0	.0	.0	11	.0	.5
-11/-13	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	37	480	1340	343	34	3	1	2238	18	2220
PCT	1.7	21.4	59.9	15.3	1.5	.1	*	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.2	2.4	.1	.0	.0	.0	2.7
3-4	.0	.7	1.0	.0	.0	.0	1.7
5-6	.0	.0	.6	.1	.0	.0	.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	2.0	.1	.0	.0	5.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.8	5.8	1.2	.0	.0	.0	7.8
3-4	.1	2.7	3.5	.1	.0	.0	6.5
5-6	.0	.4	1.6	.1	.0	.0	2.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.3	6.4	.3	.0	.0	17.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.1	.0	.0	.0	1.2
1-2	.3	6.2	1.5	.0	.0	.0	8.0
3-4	.1	4.1	6.2	.3	.0	.0	10.7
5-6	.0	1.8	3.2	.2	.0	.0	5.2
7	.0	.3	.8	.4	.0	.0	1.5
8-9	.0	.0	.3	.1	.1	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	13.2	12.1	1.0	.1	.0	27.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.1	.0	.0	.0	1.5
1-2	.4	5.1	.8	.0	.0	.0	6.4
3-4	*	4.7	6.8	*	.0	.0	11.5
5-6	.0	1.4	4.6	.5	.0	.0	6.4
7	.0	.2	2.1	.5	.0	.0	2.7
8-9	.0	.0	.7	.3	*	.0	1.0
10-11	.0	.0	.1	.6	.0	.0	.7
12	.0	.0	.1	.1	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	12.3	15.3	2.2	*	.0	30.7

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0008 VITORIA NE
18.6S 37.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2
1-2	.0	1.4	.8	.0	.0	.0	2.2	.0	.8	.3	.0	.0	.0	1.1
3-4	.1	1.0	1.8	.0	.0	.0	2.9	.0	.6	.6	.0	.0	.0	1.2
5-6	.0	.6	2.1	.1	.0	.0	2.9	.0	.0	.3	.2	.0	.0	.5
7	.0	.2	.9	1.1	.1	.0	2.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	5.8	2.3	.1	.0	11.9	.1	1.5	1.7	.2	.0	.0	3.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.5	.0	.0	.0	.0	.6	
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.2	.6	.0	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	.2	.0	.0	.0	.4	.2	.8	.7	.0	.0	.0	1.7	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	2.5	.2	.0	.0	.0	6.8	
1-2	2.4	22.4	4.7	.0	.0	.0	29.5	
3-4	.3	13.8	20.3	.4	.0	.0	34.9	
5-6	.0	4.1	12.4	1.2	.0	.0	17.7	
7	.0	.7	4.3	1.9	.1	.0	7.0	
8-9	.0	.0	1.1	.9	.1	.0	2.1	
10-11	.0	.0	.3	.7	.0	.0	1.0	
12	.0	.0	.2	.3	.0	.0	.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.8	43.5	43.5	6.0	.2	.0	100.0	903

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	10.7	15.4	7.0	2.4	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	656	3
6-7	.1	1.7	11.4	12.3	4.7	1.5	.9	.5	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	573	5
8-9	.1	.2	1.9	3.7	4.1	1.7	.6	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	218	6
10-11	.0	.2	.5	.9	.5	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
12-13	.0	.0	.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
>13	.0	.0	.0	.2	.6	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	17	7
INDET	1.4	1.8	4.0	1.8	.7	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	4
TOTAL	56	248	568	445	227	85	44	17	11	3	1	2	2	0	0	0	0	0	0	1709	4
PCT	3.3	14.5	33.2	26.0	13.3	5.0	2.6	1.0	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.8	1.2	.0	.0	.0	.0	.0	3.1	.8	.0	.0	.0	.5		.0	95.7
NE	.6	1.6	.4	.0	.0	.0	.0	2.6	1.4	.0	.3	.0	.0		.0	95.7
E	1.2	2.8	.4	.0	.0	.0	.0	4.4	3.9	.0	.0	.0	.0		.0	91.7
SE	.8	2.2	.5	.0	.0	.0	.0	3.5	3.7	.2	.0	.0	.0		.0	92.6
S	3.3	1.5	1.8	.0	.0	.0	.0	6.7	3.3	.5	.0	.0	.0		.0	89.5
SW	4.0	.0	.5	.0	.0	.0	.0	4.5	.5	.0	.0	.0	4.0		.0	91.1
W	7.5	7.5	.0	.0	.0	.0	.0	15.1	7.5	.0	.0	.0	.0		.0	77.4
NW	4.4	3.2	.0	.0	.0	.0	.0	7.6	2.5	.0	.0	.0	2.5		.0	87.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.3	2.0	.5	.0	.0	.0	.0	3.8	2.7	.1	.1	.0	.2		.0	93.2
TOT OBS:	2373															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	2.4	.3	.0	.0	.0	.0	4.1	2.4	.3	.0	.0	.0		.0	93.1
06&09	1.5	1.7	.8	.0	.0	.0	.0	4.1	3.9	.0	.0	.0	.0		.0	92.0
12&15	.6	2.3	.3	.0	.0	.0	.0	3.2	1.1	.0	.0	.0	.3		.0	95.3
18&21	1.6	1.6	.5	.0	.0	.0	.0	3.7	3.0	.0	.3	.0	.3		.0	92.6
TOT PCT	1.3	2.0	.5	.0	.0	.0	.0	3.8	2.6	.1	.1	.0	.2		.0	93.3
TOT OBS:	2412															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	4.9	3.9	.3	.0	.0		9.8	10.6	8.3	8.9	8.6	8.5	11.8	11.3	10.9	6.1
NE	1.3	14.7	8.3	.4	*	.0		24.7	9.7	29.8	26.4	24.6	18.7	22.6	20.3	26.9	20.4
E	1.3	15.2	8.2	.8	.0	.0		25.6	9.9	24.0	23.6	25.7	33.0	26.4	26.4	24.5	28.7
SE	1.1	10.2	9.6	1.5	*	.0		22.4	11.6	20.2	25.1	23.7	29.8	20.2	23.8	19.0	30.0
S	.5	3.7	4.4	1.2	.1	.0		9.8	13.2	11.4	9.7	9.7	5.5	10.2	8.8	10.3	9.7
SW	.2	1.2	1.2	.3	*	.0		3.0	11.9	2.6	2.2	2.9	1.6	3.2	3.5	3.8	1.0
W	.2	.5	.2	.0	.0	.0		.8	7.5	.4	.8	.6	.0	1.2	1.5	.9	.6
NW	.2	1.2	.5	.1	.0	.0		1.9	9.2	1.2	1.2	1.6	1.1	3.2	2.9	1.5	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	2.1	2.2	2.5	1.9	1.3	1.6	2.2	1.3
TOT OBS	620	4292	3026	380	12	0	8330		10.4	1258	972	1536	321	1237	1181	1517	308
TOT PCT	7.4	51.5	36.3	4.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	5.7	1.6	*	.0		9.8	10.6	8.6	8.6	11.5	10.1
NE	6.8	15.7	2.1	*	.0		24.7	9.7	28.3	23.6	21.5	25.8
E	7.3	15.2	3.0	.1	.0		25.6	9.9	23.8	27.0	26.4	25.2
SE	4.7	12.8	4.7	.2	.0		22.4	11.6	22.3	24.7	21.9	20.8
S	1.7	4.9	2.8	.4	.0		9.8	13.2	10.7	9.0	9.5	10.2
SW	.7	1.6	.6	.1	.0		3.0	11.9	2.5	2.7	3.3	3.4
W	.5	.3	.1	.0	.0		.8	7.5	.6	.5	1.3	.8
NW	.7	1.0	.2	.0	.0		1.9	9.2	1.2	1.5	3.0	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.2	2.4	1.4	2.1
TOT OBS	2239	4765	1260	66	0	8330		10.4	2230	1857	2418	1825
TOT PCT	26.9	57.2	15.1	.8	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	5.7	54.3	33.5	4.2	.1	.0	10.2	100.0	2230
06&09	2.4	4.5	50.2	38.1	4.7	.2	.0	10.7	100.0	1857
12&15	1.4	5.5	51.2	36.6	5.2	.1	.0	10.6	100.0	2418
18&21	2.1	6.2	49.9	37.7	4.0	.1	.0	10.4	100.0	1825
TOT	165	455	4292	3026	380	12	0	10.4		8330
PCT	2.0	5.5	51.5	36.3	4.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	2.4	1.7	.4		3.1
NE	12.9	8.1	6.9	1.6		3.2
E	11.0	8.2	7.6	2.2		3.6
SE	6.3	4.7	6.4	1.5		3.9
S	1.8	1.8	3.0	1.9		4.9
SW	.4	.4	.8	.4		4.9
W	.1	.2	.2	.1		4.7
NW	.7	.6	.5	.2		3.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.3	.1		2.9
TOT OBS	755	528	547	167	1997	3.6
TOT PCT	37.8	26.4	27.4	8.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.4	.4	.3	.3	*	.0	.0	7.1	
NE	.2	.0	.1	.7	2.4	.5	.5	.1	.0	*	25.1	
E	.2	.0	.2	.9	2.7	1.4	.7	.1	.0	*	22.8	
SE	.0	.0	.2	.8	1.9	1.2	1.0	.2	.1	.1	13.5	
S	.0	.0	.1	.8	1.0	.9	.5	.1	.1	.0	5.2	
SW	.0	.0	.1	.2	.3	.2	*	.0	.0	.1	1.2	
W	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
NW	.0	.0	.0	.0	.3	.1	*	*	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.9	
TOT OBS	6	0	11	76	183	90	62	10	3	3	1553	1997
TOT PCT	.3	.0	.6	3.8	9.2	4.5	3.1	.5	.2	.2	77.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.6	.8	.8	.8	.8	.8	.8	.8
* OR >3500	3.3	3.7	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	6.4	7.9	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	13.9	16.9	17.5	17.5	17.6	17.6	17.6	17.6
* OR >600	16.5	20.4	21.3	21.3	21.4	21.4	21.4	21.4
* OR >300	16.7	20.8	21.8	21.8	21.9	21.9	21.9	21.9
* OR >150	16.7	20.8	21.8	21.8	21.9	21.9	21.9	21.9
* OR > 0	16.9	21.1	22.1	22.1	22.2	22.2	22.2	22.2
TOTAL	340	425	446	446	447	447	447	447

TOTAL NUMBER OF OBS: 2014 PCT FREQ NH <5/8: 77.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.4	18.7	19.6	17.3	11.4	5.6	6.0	5.5	5.5 .1	2107

PERIOD: (PRIMARY) 1911-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	PCP	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
	PCP	.1	.1	.2	*	*	.0	*	.1	.0	.0	.5	
2<5	NO PCP	*	.5	.5	.2	.1	.0	.0	.1	.0	.0	1.4	
	TOT %	.1	.5	.7	.2	.1	.0	*	.2	.0	.0	1.9	
	PCP	.1	.3	.6	.4	.3	.0	.0	*	.0	.0	1.7	
5<10	NO PCP	.9	2.2	2.4	2.6	1.4	.4	.2	.3	.0	.2	10.7	
	TOT %	1.0	2.4	3.1	3.0	1.7	.4	.2	.4	.0	.2	12.4	
	PCP	.1	.3	.4	.2	.2	.1	*	*	.0	.0	1.4	
10+	NO PCP	8.1	25.9	24.2	15.6	6.1	1.5	.3	1.1	.0	1.0	83.9	
	TOT %	8.2	26.3	24.6	15.9	6.3	1.6	.3	1.1	.0	1.0	85.3	
	TOT OBS												2370
	TOT PCT	9.3	29.3	28.4	19.2	8.2	2.1	.6	1.7	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	*	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	0-3	*	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1<2	4-10	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.0	*	*	*	*	.0	.0	.0	.0	.2	
	0-3	.0	.0	*	.0	.0	.0	.0	*	.0	*	.1	
2<5	4-10	*	.2	.3	.2	.1	*	.0	.1	.0		.9	
	11-21	.1	.2	.1	.1	.2	*	*	*	.0		.8	
	22+	.0	.0	.0	*	.1	*	.0	.0	.0		.2	
	TOT %	.1	.4	.5	.3	.3	.1	*	.1	.0	*	1.9	
	0-3	.2	.2	.1	.2	*	.0	*	*	.0	.2	.9	
5<10	4-10	.5	.7	1.3	1.2	.4	.3	.1	.1	.0		4.6	
	11-21	.3	1.0	.9	1.1	1.2	.3	.1	.1	.0		4.9	
	22+	.0	.1	.1	.2	.2	.1	.0	.0	.0		.6	
	TOT %	1.0	2.0	2.3	2.6	1.8	.6	.2	.3	.0	.2	11.0	
	0-3	.5	1.2	1.2	.6	.5	.2	.2	.2	.0	1.4	5.9	
10+	4-10	4.4	14.1	14.7	9.1	3.0	1.0	.4	1.0	.0		47.7	
	11-21	4.1	8.0	6.7	6.7	3.7	1.1	.1	.4	.0		30.7	
	22+	.2	.3	.2	.5	1.0	.3	.0	.1	.0		2.6	
	TOT %	9.2	23.6	22.7	16.8	8.1	2.5	.7	1.7	.0	1.4	86.8	
	TOT OBS												4467
	TOT PCT	10.2	26.1	25.6	19.8	10.3	3.3	.9	2.1	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.0	.4	3.3	6.8	2.9	2.7	.0	.2	.2	17.1	82.9	486
06&09	.2	.0	.8	3.8	10.8	6.6	3.0	.6	.0	.0	25.7	74.3	502
12&15	.0	.0	.4	4.0	8.7	3.8	2.8	.6	.4	.2	20.9	79.1	527
18&21	.4	.0	.5	3.6	9.4	4.3	3.4	.7	.0	.2	22.4	77.6	562
TOT	6	0	11	76	186	91	62	10	3	3	448	1629	2077
PCT	.3	.0	.5	3.7	9.0	4.4	3.0	.5	.1	.1	21.6	78.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.2	1.9	11.8	86.0	1233
06&09	.1	.2	.0	2.4	11.8	85.5	1015
12&15	.0	.0	.2	1.4	10.9	87.5	1241
18&21	.1	.1	.3	2.0	9.6	87.9	1019
TOT	3	4	8	84	499	3910	4508
PCT	.1	.1	.2	1.9	11.1	86.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<1&0 <&0YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.1	5.9	12.9	81.2	474
06&09	.2	1.0	7.0	20.5	72.5	483
12&15	.0	.4	5.2	16.7	78.1	515
18&21	.4	1.1	6.1	17.3	76.6	542
TOT	6	18	122	340	1552	2014
PCT	.3	.9	6.1	16.9	77.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
85/89	.0	.0	.1	.1	.0	.2	.0	.0	7	.4
80/84	.0	.0	.0	.2	1.2	.8	.2	.2	50	2.6
75/79	.0	.1	.0	1.4	7.9	19.1	8.2	2.0	729	38.6
70/74	.0	.0	.1	.9	8.0	21.8	18.5	6.6	1055	55.9
65/69	.0	.0	.0	.1	.4	.3	.8	.8	46	2.4
TOTAL	0	2	3	49	332	798	524	180	1888	100.0
PCT	.0	.1	.2	2.6	17.6	42.3	27.8	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	*	.2	*	*	.0	.0	.0	.0	.0
.4	1.0	.8	.3	.1	.0	.0	*	.0	.1
4.9	14.0	11.5	4.8	1.6	.7	.2	.5	.0	.4
4.2	13.5	15.4	13.8	6.1	1.5	.3	.6	.0	.4
.0	.3	.4	.9	.6	.2	.1	.0	.0	.0
9.6	28.8	28.3	19.8	8.4	2.4	.6	1.1	.0	1.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	78	76	73	70	68	61	73.0	2211
06&09	92	78	76	73	69	66	64	72.7	1849
12&15	89	83	80	75	70	68	64	74.8	2343
18&21	88	83	80	75	70	68	63	75.0	1754
TOT	92	82	79	74	70	67	61	73.9	8157

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	12.0	46.6	30.7	9.7	78	485
06&09	.0	1.7	9.0	37.8	38.2	13.2	80	476
12&15	.0	4.8	20.8	42.0	23.9	8.4	76	476
18&21	.0	3.9	28.3	42.3	18.7	6.8	74	487
TOT	0	55	338	812	536	183	77	1924

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.1	.0	.0	.1	.0	5	.0	.2
9/10	.0	.0	*	.1	.1	.1	.0	7	.0	.3
7/8	.0	.0	.1	.2	.6	.1	.0	23	.0	1.1
6	.0	.0	*	.2	.2	.0	.0	11	.0	.5
5	.0	.0	.4	.6	.3	.0	.0	28	.0	1.4
4	.0	.1	.7	1.4	.2	.0	.0	51	.0	2.5
3	.0	.2	.7	1.6	.1	.0	.0	55	.0	2.7
2	*	.3	3.1	2.3	.1	.0	.0	122	.0	5.9
1	.0	.5	6.8	2.7	.0	.0	.0	207	.0	10.1
0	.0	1.2	12.3	2.1	.1	.0	.0	324	.0	15.8
-1	.0	2.2	14.6	1.1	.0	.0	.0	368	*	17.8
-2	.2	3.4	11.2	.4	.0	.0	.0	313	.0	15.2
-3	.2	4.1	6.2	.0	.0	.0	.0	216	.0	10.5
-4	.1	3.5	3.5	.1	.0	.0	.0	150	.0	7.3
-5	.3	2.4	1.0	*	.0	.0	.0	77	.0	3.7
-6	.1	1.8	1.0	.0	.0	.0	.0	59	.0	2.9
-7/-8	.2	1.0	.5	*	.0	.0	.0	35	.0	1.7
-9/-10	*	*	*	.0	.0	.0	.0	3	.0	.1
-11/-13	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	27	428	1285	268	39	8	2	2057	1	2056
PCT	1.3	20.8	62.5	13.0	1.9	.4	.1	100.0	*	100.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0
1-2	.1	1.4	.8	.0	.0	.0	2.2
3-4	.0	1.7	1.6	.0	.0	.0	3.2
5-6	.0	.2	1.0	.2	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	3.6	.2	.0	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1
1-2	.2	8.7	1.0	.0	.0	.0	9.9
3-4	.0	7.4	8.0	.0	.0	.0	15.4
5-6	.0	1.3	4.3	.4	.0	.0	6.0
7	.0	.5	.9	.1	.0	.0	1.5
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	18.8	14.4	.7	.0	.0	34.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.1	.0	.0	.0	1.5
1-2	.2	9.0	1.8	.0	.0	.0	11.0
3-4	.0	5.7	4.2	.0	.0	.0	9.9
5-6	.0	1.2	3.1	.1	.0	.0	4.4
7	.0	.3	1.1	.0	.0	.0	1.4
8-9	.0	.0	.3	.2	.0	.0	.5
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	17.6	10.5	.5	.0	.0	28.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.1	2.4	.7	.0	.0	.0	3.2
3-4	.1	2.7	2.4	.1	.0	.0	5.4
5-6	.0	.6	2.9	.0	.0	.0	3.5
7	.0	.2	1.6	.6	.0	.0	2.5
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.3	7.9	1.2	.0	.0	15.7

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0008 VITORIA NE
18.6S 38.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	1.2	.2	.0	.0	.0	1.5
3-4	.0	.8	.9	.0	.0	.0	1.7
5-6	.0	.0	1.4	.1	.1	.0	1.6
7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.4	.7	.1	.0	6.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.2	.1	.1	*	.0	.4
7	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.8	.3	*	.0	2.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.2	.0	.0	.0	.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	*	1.0	.1	.0	.0	.0	1.1	
3-4	.1	.1	.4	.1	.0	.0	.8	
5-6	.0	*	.6	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.1	1.2	.1	.0	.0	2.6	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	3.5	.1	.0	.0	.0	5.3	
1-2	.8	24.5	4.7	.0	.0	.0	30.0	
3-4	.2	18.8	17.7	.2	.0	.0	37.0	
5-6	.0	3.7	13.5	.9	.1	.0	18.2	
7	.0	1.1	4.6	1.2	.0	.0	6.9	
8-9	.0	.0	.8	.8	.0	.0	1.7	
10-11	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								846
TOT PCT	2.7	51.5	41.7	3.9	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	11.4	17.9	5.3	2.3	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	645	3
6-7	.1	1.5	12.3	11.7	4.4	1.5	1.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	534	5
8-9	.1	.5	1.8	3.6	4.1	2.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	6
10-11	.0	.3	.4	.4	.6	.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
12-13	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
>13	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	13
INDET	1.7	1.8	2.9	2.6	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	4
TOTAL	58	251	590	388	209	76	37	7	7	0	3	0	0	0	0	0	0	0	0	1626	4
PCT	3.6	15.4	36.3	23.9	12.9	4.7	2.3	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	.6	.3	.0	.0	.0	.0	2.1	.6	.8	1.1	.0	1.4		.0	94.1
NE	1.1	.6	.9	.0	.0	.0	.0	2.2	2.3	.4	.7	.0	.5		.0	93.8
E	1.6	1.5	.5	.0	.0	.0	.0	3.4	2.4	.1	.3	.0	.4		.0	93.4
SE	2.7	3.4	1.1	.0	.0	.0	.0	6.7	4.4	.3	.0	.0	.7		.0	87.9
S	3.9	7.4	2.0	.0	.0	.0	.0	12.9	3.8	.5	.5	.0	1.4		.0	80.9
SW	2.9	1.8	2.9	.0	.0	.0	.0	7.6	6.9	.0	2.9	.4	1.5		.0	80.7
W	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8	4.8		.0	85.7
NW	5.6	2.8	2.8	.0	.0	.0	.0	11.2	.0	.0	.0	.0	3.3		.0	85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1		.0	88.9
TOT PCT	1.8	1.8	.9	.0	.0	.0	.0	4.3	2.6	.4	.6	*	.9		.0	91.3
TOT OBS:	2534															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.7	2.2	1.0	.0	.0	.0	.0	4.5	2.7	.5	.2	.0	1.0		.0	91.2
06&09	2.2	2.0	.5	.0	.0	.0	.0	4.5	1.9	.8	.8	.2	.3		.0	91.4
12&15	1.2	1.5	1.2	.0	.0	.0	.0	3.8	3.1	.1	.5	.0	.7		.0	91.7
18&21	2.1	1.8	.9	.0	.0	.0	.0	4.3	2.8	.1	.7	.0	1.3		.0	90.6
TOT PCT	1.8	1.8	.9	.0	.0	.0	.0	4.3	2.6	.4	.6	*	.8		.0	91.2
TOT OBS:	2605															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	5.9	6.1	.5	*	.0		13.1	11.6	12.0	10.4	11.7	10.3	15.6	15.5	14.6	7.6
NE	1.0	16.9	13.3	.8	*	.0		32.0	10.8	36.4	31.2	33.0	28.6	31.5	26.8	33.0	28.8
E	1.4	13.5	6.2	.5	.0	*		21.6	9.5	20.9	24.0	22.4	28.6	19.5	20.7	19.9	28.3
SE	.9	9.0	6.2	.8	*	*		16.9	10.8	15.3	19.5	17.6	20.0	15.7	18.8	14.9	19.5
S	.5	3.6	3.8	1.2	.1	*		9.2	13.1	9.8	10.1	8.9	8.1	8.6	8.1	10.1	9.8
SW	.1	1.3	1.2	.3	*	.0		3.0	12.3	2.7	2.2	2.3	1.9	3.6	3.9	3.4	2.0
W	.1	.6	.2	*	*	.0		.8	9.3	.5	.3	.9	.0	1.4	1.3	.7	.8
NW	.2	1.0	.6	*	.0	.0		1.8	9.7	1.1	.7	1.5	1.4	2.9	3.0	1.9	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.5	1.5	1.6	1.2	1.4	2.0	1.6	2.0
TOT OBS	492	4051	2947	315	15	4	7824		10.7	1226	879	1410	256	1321	1023	1455	254
TOT PCT	6.3	51.8	37.7	4.0	.2	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	7.9	2.6	.1	.0		13.1	11.6	11.3	11.5	15.5	13.5
NE	6.3	21.3	4.3	.1	*		32.0	10.8	34.2	32.3	29.5	32.4
E	6.6	13.2	1.6	.2	*		21.6	9.5	22.2	23.4	20.0	21.1
SE	4.0	10.1	2.5	.2	*		16.9	10.8	17.1	17.9	17.0	15.6
S	1.8	4.4	2.7	.3	*		9.2	13.1	9.9	8.8	8.3	10.1
SW	.6	1.7	.6	.1	*		3.0	12.3	2.5	2.3	3.7	3.2
W	.3	.5	*	*	*		.8	9.3	.4	.8	1.4	.7
NW	.6	.9	.3	*	.0		1.8	9.7	.9	1.5	2.9	1.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.5	1.6	1.6	1.6
TOT OBS	1901	4693	1145	76	9	7824		10.7	2105	1666	2344	1709
TOT PCT	24.3	60.0	14.6	1.0	.1		100.0		100.0	100.0	100.0	100.0

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(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	4.6	51.1	37.8	4.7	.2	.1	10.8	100.0	2105
06&09	1.6	4.7	54.2	36.0	3.2	.3	.0	10.4	100.0	1666
12&15	1.6	4.9	51.7	37.7	3.9	.2	*	10.6	100.0	2344
18&21	1.6	4.6	50.4	39.0	4.2	.1	.1	10.8	100.0	1709
TOT	123	369	4051	2947	315	15	4	10.7		7824
PCT	1.6	4.7	51.8	37.7	4.0	.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.1	2.9	3.2	1.3		3.4
NE	16.3	9.3	7.3	3.4		3.3
E	9.4	5.7	5.4	2.5		3.6
SE	2.9	3.6	4.3	3.0		4.9
S	1.6	1.3	1.9	3.1		5.5
SW	.3	.3	.9	1.1		6.1
W	.2	.1	.3	.1		4.3
NW	.4	.4	.2	.6		4.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.1	.0		3.0
TOT OBS	803	512	506	323	2144	3.9
TOT PCT	37.5	23.9	23.6	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.4	.8	.3	.1	.1	.1	11.2	
NE	*	.0	*	1.1	2.3	1.6	.5	.4	.1	.1	30.0	
E	.2	*	.2	1.3	2.0	1.1	.4	.2	.0	.1	17.5	
SE	*	*	.1	1.1	2.3	1.2	.7	.1	.0	.2	8.3	
S	*	.0	.1	1.1	2.1	.5	.3	*	.0	.0	3.5	
SW	.0	*	.1	.3	.9	.3	*	*	.0	.0	.9	
W	.0	.0	*	.1	.1	.0	.0	*	.0	.0	.3	
NW	*	.0	*	.1	.3	.1	*	.0	.0	*	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.5	
TOT OBS	7	3	14	122	225	120	51	17	3	12	1570	2144
TOT PCT	.3	.1	.7	5.7	10.5	5.6	2.4	.8	.1	.6	73.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.7	.7	.7	.7	.7	.7
* OR >5000	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.2	3.6	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	7.3	8.6	9.5	9.6	9.6	9.6	9.6	9.6
* OR >1000	15.4	18.3	19.7	20.0	20.0	20.0	20.0	20.1
* OR >600	19.5	23.6	25.3	25.6	25.7	25.7	25.7	25.7
* OR >300	19.7	24.1	25.8	26.1	26.3	26.3	26.3	26.3
* OR >150	19.7	24.2	25.9	26.3	26.4	26.4	26.4	26.4
* OR > 0	19.7	24.2	26.1	26.6	26.7	26.7	26.7	26.8
TOTAL	430	527	569	579	582	582	582	583

TOTAL NUMBER OF OBS: 2178

PCT FREQ NH <5/8: 73.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.6	17.2	22.0	15.3	7.8	5.1	5.4	5.7	10.6	.3	2281

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	PCP	.0	*	*	.1	.2	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	*	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.1	*	.1	.2	*	.0	.0	.0	.0	.4	
	PCP	*	.2	.2	.2	.2	*	.0	*	.0	.0	.9	
2<5	NO PCP	.4	1.0	.6	.5	.3	.1	.1	*	.0	.0	2.9	
	TOT %	.4	1.1	.7	.7	.5	.1	.1	.1	.0	.0	3.8	
	PCP	.1	.3	.3	.5	.3	.1	.0	.0	.0	.0	1.6	
5<10	NO PCP	1.6	3.2	3.2	2.4	1.7	.9	.1	.2	.0	.2	13.4	
	TOT %	1.7	3.5	3.5	2.9	2.0	.9	.1	.2	.0	.2	15.0	
	PCP	.1	.2	.2	.2	.3	.1	.0	.1	.0	.0	1.3	
10+	NO PCP	10.7	30.5	19.0	10.4	5.2	1.5	.4	1.0	.0	.5	79.3	
	TOT %	10.8	30.7	19.2	10.5	5.6	1.6	.4	1.2	.0	.5	80.6	
	TOT OBS												2532
	TOT PCT	12.9	35.4	23.5	14.3	8.3	2.7	.6	1.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.0	.0	*	*	*	*	*	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	*	.0	*	*	.0	.0	*	.0		.1	
	11-21	.0	*	.1	.1	.1	*	.0	.0	.0		.3	
	22+	.0	*	.0	*	*	*	*	.0	.0		.1	
	TOT %	*	.1	.1	.2	.2	*	*	*	.0	.0	.6	
	0-3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.5	.2	.2	.1	.1	.1	*	.0		1.3	
	11-21	.2	.3	.3	.3	.2	.1	.0	*	.0		1.3	
	22+	.0	.0	*	*	.1	*	*	.0	.0		.2	
	TOT %	.3	.8	.5	.6	.4	.2	.1	.1	.0	.0	3.0	
	0-3	.1	*	.2	.2	.1	*	*	*	.0	.1	.7	
5<10	4-10	.5	1.8	1.6	1.0	.5	.4	.1	.1	.0		6.0	
	11-21	1.1	1.6	1.1	1.3	.9	.3	*	.1	.0		6.4	
	22+	.2	.1	.1	.2	.3	*	*	*	.0		1.0	
	TOT %	1.9	3.5	2.9	2.6	1.8	.8	.2	.2	.0	.1	14.2	
	0-3	.2	1.0	1.3	.5	.1	*	*	.1	.0	.8	4.0	
10+	4-10	4.7	15.2	12.2	6.1	2.6	.7	.3	.7	.0		42.5	
	11-21	5.7	13.8	5.1	4.5	2.9	.9	.1	.5	.0		33.4	
	22+	.4	.6	.1	.3	.7	.1	.0	*	.0		2.2	
	TOT %	11.0	30.5	18.6	11.3	6.3	1.7	.4	1.4	.0	.8	82.1	
	TOT OBS												4520
	TOT PCT	13.3	34.9	22.1	14.8	8.8	2.8	.6	1.7	.0	.9	100.0	

PERIOD: (PRIMARY) 1913-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.0	.4	5.8	10.5	5.8	2.2	1.4	.2	1.0	27.8	72.2	503
06&09	.4	.2	.4	4.8	9.8	5.2	1.8	.6	.4	.6	24.2	75.8	500
12&15	.0	.2	.9	5.6	10.8	5.9	3.4	.6	.0	.0	27.4	72.6	647
18&21	.3	.2	.7	5.6	9.8	4.8	2.3	1.0	.2	.7	25.5	74.5	605
TOT	7	3	14	123	231	122	56	20	4	12	592	1663	2255
PCT	.3	.1	.6	5.5	10.2	5.4	2.5	.9	.2	.5	26.3	73.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.0	3.4	14.6	81.0	1240
06&09	.3	.0	.8	3.6	15.4	79.9	996
12&15	.0	.2	.5	2.5	14.3	82.4	1304
18&21	.1	.1	.7	3.1	12.6	83.4	1052
TOT	4	4	34	144	653	3753	4592
PCT	.1	.1	.7	3.1	14.2	81.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.0	11.4	19.7	68.9	482
06&09	.6	1.2	11.4	17.0	71.6	483
12&15	.0	1.3	10.1	19.0	70.9	633
18&21	.3	1.0	10.7	17.4	71.9	580
TOT	8	25	236	398	1544	2178
PCT	.4	1.1	10.8	18.3	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0	1	*
85/89	.0	.0	.0	.1	.2	.1	.0	.1	12	.6
80/84	.0	.0	.0	.2	1.8	2.1	.8	.3	105	5.1
75/79	.0	.0	*	1.0	4.7	23.2	14.8	3.7	970	47.5
70/74	.0	.0	.0	1.1	6.8	13.2	17.5	6.5	919	45.0
65/69	.0	.0	.0	.1	.3	.3	.5	.4	34	1.7
60/64	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
55/59	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	1	52	284	795	688	224	2044	100.0
PCT	.0	.0	*	2.5	13.9	38.9	33.7	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
.2	.3	.1	.0	.0	.0	.0	.0	.0	.0
1.5	1.7	1.0	.3	.2	*	*	.1	.0	.1
7.6	21.1	11.4	4.1	1.4	.9	.1	.6	.0	.3
3.2	11.9	11.1	10.4	5.4	1.8	.3	.6	.0	.3
.0	.1	.4	.5	.6	.1	.0	.0	.0	.0
.0	*	*	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
12.5	35.2	24.1	15.2	7.6	2.8	.5	1.4	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	79	77	74	70	68	60	73.8	2103
06&09	86	79	77	73	70	68	59	73.4	1658
12&15	90	84	81	75	71	68	64	75.6	2281
18&21	91	85	81	76	71	69	64	76.0	1676
TOT	91	83	80	74	70	68	59	74.7	7718

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	10.2	33.4	42.2	13.1	80	488
06&09	.0	1.1	8.3	33.0	43.1	14.5	81	469
12&15	.0	3.0	15.2	44.4	27.9	9.5	77	592
18&21	.0	4.7	20.7	43.2	23.9	7.5	75	532
TOT	0	53	289	811	700	228	78	2081

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	*	.0	.1	.0	4	.0	.2
9/10	.0	.0	.0	.0	.0	*	.2	.1	.0	8	.0	.4
7/8	.0	.0	.0	.0	.1	.2	.3	.4	.0	23	.0	1.1
6	.0	.0	.0	.0	.1	.1	.3	*	.0	12	.0	.6
5	.0	.0	.0	.0	.5	1.2	.8	.1	.0	55	.0	2.5
4	.0	.0	.0	*	.9	1.5	.6	.0	.0	65	.0	3.0
3	.0	.0	.1	.1	1.3	2.7	.2	.0	.0	95	.0	4.4
2	.0	.0	*	.1	2.6	4.4	.2	.0	.0	162	*	7.4
1	.0	.0	*	.4	5.9	4.3	.0	.0	.0	231	.0	10.7
0	.0	.0	*	1.1	12.5	3.0	.0	.0	.0	362	.1	16.6
-1	.0	.1	.0	1.7	13.5	1.2	*	.0	.0	358	.1	16.4
-2	.0	.0	*	3.7	11.1	.6	*	.0	.0	335	*	15.4
-3	*	.0	.0	3.1	4.9	.2	.0	.0	.0	180	*	8.3
-4	.0	.0	.1	2.1	3.6	.2	.0	.0	.0	130	.0	6.0
-5	.0	*	*	1.8	1.1	.2	.0	.0	.0	71	*	3.2
-6	.0	.0	.3	1.3	.4	*	.0	.0	.0	43	.0	2.0
-7/-8	.0	.0	.3	.6	*	.0	.0	.0	.0	21	.0	1.0
-9/-10	.0	.0	.1	.0	.1	.0	.0	.0	.0	5	.0	.2
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
-14/-16	.0	*	.0	*	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	5	25	351	1272	435	58	17	1	2166	9	2157
PCT	.1	.2	1.2	16.2	58.7	20.1	2.7	.8	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	2.0	.9	.0	.0	.0	2.9
3-4	.1	1.3	2.9	.1	.0	.0	4.4
5-6	.0	.2	2.1	.2	.0	.0	2.4
7	.0	.1	.7	.2	.0	.0	1.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	6.7	.6	.0	.0	11.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.1	.0	.0	.0	1.8
1-2	.7	8.6	3.0	.0	.0	.0	12.3
3-4	*	6.2	7.0	.3	.0	.0	13.5
5-6	.0	1.0	4.8	.1	.0	.0	5.9
7	.0	.1	2.1	*	.0	.0	2.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	17.4	17.3	.5	.0	.0	36.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.2
1-2	.5	6.8	1.0	.0	.0	.0	8.3
3-4	.0	5.6	5.0	.1	.0	.0	10.7
5-6	.0	1.7	2.6	.1	.0	.0	4.3
7	.0	.3	.3	.1	.0	.0	.6
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	15.3	9.0	.2	.0	.0	25.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.3
1-2	*	3.5	.7	.0	.0	.0	4.2
3-4	.1	2.2	3.0	*	.0	.0	5.3
5-6	.0	.8	1.4	.0	.0	.0	2.2
7	.0	.0	1.1	.3	.0	.0	1.4
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.6	6.5	.5	.0	.0	13.8

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.5	.5	.0	.0	.0	2.0
3-4	.0	.9	1.7	.0	.0	.0	2.6
5-6	.0	.0	1.5	.3	.1	.0	1.9
7	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	4.1	1.0	.1	.0	7.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	1.0	.1	.0	.0	.0	1.2
3-4	.0	.4	.7	.0	.0	.0	1.2
5-6	.0	.2	.5	*	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	1.7	*	.0	.0	3.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.1	.0	.0	.0	.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.0	.0	.0	.0	.2	
1-2	.0	.1	.1	.0	.0	.0	.2	
3-4	.0	.2	.2	.0	.0	.0	.4	
5-6	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	*	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.5	.4	*	.0	.0	1.1	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	3.0	.2	.0	.0	.0	4.6	
1-2	1.5	23.7	6.4	.0	.0	.0	31.6	
3-4	.3	17.2	20.5	.5	.0	.0	38.5	
5-6	.0	3.9	12.9	.7	.1	.0	17.7	
7	.0	.5	4.5	1.0	.0	.0	6.0	
8-9	.0	.1	.6	.4	.0	.0	1.1	
10-11	.0	.0	.2	.3	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	48.3	45.5	2.9	.1	.0	100.0	1014

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	11.1	19.5	8.7	2.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	788	3
6-7	.1	1.0	10.2	11.1	4.8	1.3	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	526	5
8-9	.0	.1	2.3	4.2	3.7	1.3	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	6
10-11	.0	.4	.1	.6	.6	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
12-13	.0	.0	.1	.2	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
INDET	.9	1.7	4.3	2.2	1.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	4
TOTAL	41	260	662	493	239	74	31	5	4	1	1	2	0	0	0	0	0	0	0	1813	4
PCT	2.3	14.3	36.5	27.2	13.2	4.1	1.8	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	2.2	1.0	.7	.0	.0	.0	.0	3.7	2.7	1.1	.8	.0	1.2		.0	90.4
NE	1.1	1.2	.8	.0	.0	.0	.0	3.0	1.7	.5	.8	.0	.3		.0	93.8
E	3.6	2.2	1.2	.0	.0	.0	.0	7.1	4.2	.2	.1	.0	.2		.0	88.3
SE	5.8	3.5	1.0	.0	.0	.0	.0	10.4	4.6	.3	.3	.0	.2		.0	84.2
S	6.7	4.4	3.0	.0	.0	.0	.0	13.4	6.4	.3	1.3	.0	.3		.0	78.3
SW	17.6	6.0	1.7	.0	.0	.0	.0	25.3	3.0	1.7	.4	.0	.0		.0	69.5
W	15.8	4.2	4.2	.0	.0	.0	.0	24.2	10.5	4.2	.0	.0	.0		.0	61.1
NW	7.4	2.5	3.1	.0	.0	.0	.0	12.3	9.3	2.5	.0	.0	.6		.0	75.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0		.0	88.2
TOT PCT	3.6	2.1	1.2	.0	.0	.0	.0	6.8	3.4	.6	.6	.0	.4		.0	88.2
TOT OBS:	2574															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.9	2.4	1.4	.0	.0	.0	.0	6.6	2.6	1.1	.6	.0	.6		.0	88.4
06&09	4.1	2.4	1.5	.0	.0	.0	.0	8.0	4.1	1.5	1.2	.0	.2		.0	85.1
12&15	4.0	1.9	.8	.0	.0	.0	.0	6.6	2.8	.0	.5	.0	.4		.0	89.7
18&21	3.5	1.9	1.2	.0	.0	.0	.0	6.5	4.1	.0	.4	.0	.3		.0	88.7
TOT PCT	3.6	2.1	1.2	.0	.0	.0	.0	6.9	3.4	.6	.7	.0	.4		.0	88.1
TOT OBS:	2636															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	6.1	8.8	.9	*	.0		16.3	12.4	14.0	13.0	14.6	13.0	20.1	18.3	18.7	11.7
NE	.9	15.9	14.5	1.1	.0	.0		32.3	11.2	36.6	34.8	33.1	29.9	30.2	27.5	32.1	33.3
E	1.0	11.4	6.2	.2	.0	.0		18.9	9.7	19.2	19.1	20.7	24.9	16.4	18.4	17.4	23.3
SE	.8	7.6	6.0	1.0	.1	.0		15.6	11.3	15.7	18.6	15.5	18.1	13.7	16.9	14.0	15.5
S	.5	3.1	4.6	1.3	.1	.0		9.6	13.7	10.0	8.7	8.9	8.2	10.0	8.7	10.7	10.8
SW	.2	1.3	1.2	.3	*	.0		3.0	12.3	2.2	2.4	3.0	1.7	3.5	3.4	3.7	2.2
W	.1	.5	.2	*	.0	.0		.9	8.3	.4	1.0	.9	.4	1.2	1.3	.7	.7
NW	.2	1.0	.6	.1	*	.0		1.9	9.7	.8	1.4	1.7	1.7	3.4	3.0	1.2	1.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.2	1.1	1.6	1.9	1.4	2.7	1.5	.8
TOT OBS	471	3749	3362	393	18	0	7993		11.2	1257	930	1440	258	1311	1050	1498	249
TOT PCT	5.9	46.9	42.1	4.9	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	9.9	4.0	.1	.0		16.3	12.4	13.6	14.4	19.3	17.7
NE	6.0	20.9	5.3	.1	.0		32.3	11.2	35.8	32.6	29.0	32.3
E	5.0	12.1	1.8	*	.0		18.9	9.7	19.1	21.4	17.3	18.2
SE	3.8	8.6	2.9	.3	*		15.6	11.3	16.9	15.9	15.1	14.2
S	1.7	4.6	2.9	.4	*		9.6	13.7	9.4	8.8	9.4	10.7
SW	.6	1.5	.7	.1	*		3.0	12.3	2.3	2.8	3.5	3.5
W	.4	.4	.1	.0	.0		.9	8.3	.6	.8	1.3	.7
NW	.6	1.0	.2	*	.0		1.9	9.7	1.0	1.7	3.2	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.1	1.6	1.9	1.4
TOT OBS	1750	4715	1441	83	4	7993		11.2	2187	1698	2361	1747
TOT PCT	21.9	59.0	18.0	1.0	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	3.6	46.0	43.4	5.5	.3	.0	11.6	100.0	2187
06&09	1.6	4.2	50.5	38.9	4.7	.2	.0	10.9	100.0	1698
12&15	1.9	4.7	45.6	43.0	4.7	.1	.0	11.0	100.0	2361
18&21	1.4	4.9	46.4	42.2	4.8	.3	.0	11.2	100.0	1747
TOT	124	347	3749	3362	393	18	0	11.2		7993
PCT	1.6	4.3	46.9	42.1	4.9	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	3.9	5.5	3.1		4.4
NE	14.5	9.4	8.4	4.3		3.6
E	6.2	5.0	4.7	2.9		4.0
SE	2.0	2.2	3.6	3.7		5.3
S	1.3	1.4	3.8	4.5		6.0
SW	.2	.1	.6	.9		6.5
W	.1	.1	.2	.3		6.3
NW	.4	.2	.4	.6		5.4
VAR	.0	.0	.0	.0		.0
CALM	*	.2	.2	.2		5.4
TOT OBS	612	467	566	426	2071	4.4
TOT PCT	29.6	22.5	27.3	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	*	*	1.2	2.2	.4	.6	.4	.1	.2	12.2	
NE	.0	.0	.4	1.5	3.0	1.4	.4	.3	.1	.3	29.3	
E	.1	.0	.3	1.1	2.0	.6	.3	.1	.2	.0	14.1	
SE	.1	.2	.2	1.1	1.9	.7	.6	*	*	*	6.5	
S	*	*	.4	1.5	2.6	1.0	.8	.1	*	.0	4.4	
SW	.1	.0	.1	.1	.4	.3	.1	*	*	.0	.6	
W	*	.0	.0	.2	.2	.0	*	.0	.0	.0	.2	
NW	.0	.0	.1	.1	.1	.1	.2	*	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.4	
TOT OBS	7	6	33	142	258	95	65	23	11	11	1420	2071
TOT PCT	.3	.3	1.6	6.9	12.5	4.6	3.1	1.1	.5	.5	68.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.2	4.9	5.2	5.4	5.4	5.4	5.4	5.4
* OR >2000	7.3	8.7	9.6	9.9	9.9	9.9	9.9	9.9
* OR >1000	16.4	20.4	22.0	22.4	22.4	22.4	22.4	22.4
* OR >600	21.4	26.9	28.8	29.2	29.2	29.2	29.2	29.2
* OR >300	22.3	28.2	30.3	30.8	30.8	30.8	30.8	30.8
* OR >150	22.4	28.4	30.6	31.1	31.1	31.1	31.1	31.1
* OR > 0	22.4	28.6	30.9	31.5	31.5	31.5	31.5	31.5
TOTAL	471	601	650	661	661	661	661	661

TOTAL NUMBER OF OBS: 2101

PCT FREQ NH <5/8: 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.3	16.5	18.5	14.6	9.1	5.0	6.8	6.3	13.6	.3	2230

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	PCP	.1	.1	*	*	.1	.1	.0	*	.0	.0	.5	
1<2	NO PCP	.0	.1	.0	.0	.1	*	*	.0	.0	.0	.3	
	TOT %	.1	.2	*	*	.2	.2	*	*	.0	.0	.7	
	PCP	.1	.2	.2	.2	.2	.1	*	*	.0	.0	1.2	
2<5	NO PCP	.1	.6	.4	.3	.4	*	.1	.1	.0	.0	2.1	
	TOT %	.3	.8	.6	.6	.7	.1	.1	.1	.0	.0	3.3	
	PCP	.2	.6	.6	.8	.8	.3	.2	*	.0	.1	3.6	
5<10	NO PCP	2.3	4.1	2.2	1.8	1.8	.6	.2	.3	.0	*	13.4	
	TOT %	2.5	4.8	2.8	2.6	2.6	.9	.4	.3	.0	.1	17.0	
	PCP	.2	.2	.5	.2	.3	*	*	.1	.0	.0	1.6	
10+	NO PCP	13.6	30.0	14.9	8.6	7.3	1.0	.4	1.0	.0	.5	77.4	
	TOT %	13.9	30.2	15.3	8.9	7.6	1.1	.4	1.1	.0	.5	78.9	
	TOT OBS												2574
	TOT PCT	16.7	35.9	18.8	12.1	11.1	2.3	.9	1.6	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.0	.0	.0	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*	
1<2	4-10	.0	*	*	*	*	*	.0	.0	.0		.1	
	11-21	.1	.1	*	*	*	*	.0	*	.0		.3	
	22+	.0	.0	.0	*	.1	*	*	.0	.0		.1	
	TOT %	.1	.1	.1	.1	.1	.1	*	*	.0	.0	.5	
	0-3	*	*	*	*	*	.0	.0	.0	.0	*	.1	
2<5	4-10	.1	.4	.2	.2	.2	.1	.1	.1	.0		1.4	
	11-21	.2	.2	.2	.3	.3	*	.0	*	.0		1.3	
	22+	*	.1	.0	.1	.1	.0	.0	.0	.0		.3	
	TOT %	.3	.7	.5	.6	.6	.2	.1	.1	.0	*	3.0	
	0-3	.1	.1	.1	*	.1	*	*	.1	.0	.3	.8	
5<10	4-10	.9	1.8	1.5	1.1	.5	.3	.2	.2	.0		6.6	
	11-21	1.2	2.3	.8	1.3	1.3	.4	.1	.1	.0		7.5	
	22+	.2	.2	.0	.2	.5	.1	.0	.0	.0		1.2	
	TOT %	2.5	4.4	2.4	2.6	2.4	.8	.3	.4	.0	.3	16.1	
	0-3	.4	.6	.7	.5	.2	.1	.1	.1	.0	1.0	3.7	
10+	4-10	5.7	15.2	10.3	5.2	2.9	.7	.2	.6	.0		40.2	
	11-21	8.0	13.5	4.3	3.5	3.2	.5	.1	.3	.0		33.5	
	22+	.7	.7	.2	.4	.5	.1	.0	*	.0		2.7	
	TOT %	14.8	30.1	15.5	9.7	6.2	1.4	.4	1.1	.0	1.0	80.2	
	TOT OBS												4410
	TOT PCT	17.7	35.3	18.5	13.0	9.3	2.4	.8	1.7	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1913-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.0	1.6	6.4	10.7	4.8	3.6	.8	1.2	.6	30.0	70.0	497
06&09	.4	.0	1.5	7.8	13.9	4.0	3.2	.4	.4	.6	32.3	67.7	474
12&15	.6	.6	1.3	7.3	12.8	4.1	2.9	1.6	.2	.5	31.9	68.1	617
18&21	.2	.3	1.7	5.4	11.1	4.9	2.9	1.2	.3	.3	28.2	71.8	596
TOT	8	6	33	146	264	97	68	23	11	11	667	1517	2184
PCT	.4	.3	1.5	6.7	12.1	4.4	3.1	1.1	.5	.5	30.5	69.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.4	3.6	15.5	80.4	1212
06&09	.0	.3	.9	3.5	19.3	76.0	953
12&15	.0	.1	.5	2.5	15.6	81.3	1286
18&21	.0	.0	.4	2.7	15.2	81.7	1022
TOT	1	4	25	137	728	3578	4473
PCT	*	.1	.6	3.1	16.3	80.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.9	13.1	19.8	67.2	475
06&09	.4	2.0	14.3	21.2	64.5	448
12&15	.7	2.7	12.1	21.1	66.8	603
18&21	.2	2.3	11.1	19.7	69.2	575
TOT	8	47	263	429	1409	2101
PCT	.4	2.2	12.5	20.4	67.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	*	*	.0	.0	4	.2
85/89	.0	.0	.0	*	.4	.7	*	.0	25	1.2
80/84	.0	.0	.0	.2	1.6	4.7	2.2	.6	190	9.2
75/79	.0	.0	.0	.8	2.5	20.0	26.0	10.2	1227	59.5
70/74	.0	.0	*	.6	3.1	5.9	9.4	9.1	580	28.1
65/69	.0	.0	.0	.0	.0	.2	.4	1.0	35	1.7
60/64	.0	.0	.0	.0	.0	*	.0	.0	1	*
TOTAL	0	0	1	35	156	652	785	433	2062	100.0
PCT	.0	.0	*	1.7	7.6	31.6	38.1	21.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	.0	.0	.0
.4	.5	.3	.1	.0	.0	.0	.0	.0	.0
3.0	3.7	1.3	.4	.4	.1	*	.1	.0	*
12.1	24.6	11.5	5.0	3.9	.6	.4	1.0	.0	.3
1.7	5.7	5.6	6.3	6.3	1.4	.4	.5	.0	.2
.0	.1	.3	.6	.4	.1	*	.0	.0	.1
*	*	.0	.0	.0	.0	.0	.0	.0	.0
17.2	34.9	19.1	12.4	11.0	2.2	.9	1.6	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	80	78	75	71	68	64	74.9	2192
06&09	90	80	78	75	70	68	63	74.5	1706
12&15	92	85	82	77	72	69	64	76.8	2312
18&21	94	86	83	77	72	68	62	77.1	1703
TOT	94	85	81	76	71	68	62	75.8	7913

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	4.5	25.6	42.8	26.2	84	512
06&09	.0	.6	5.5	23.3	41.6	29.0	84	473
12&15	.0	2.5	7.9	37.1	35.2	17.2	80	593
18&21	.0	2.5	11.6	38.3	34.3	13.4	79	528
TOT	0	36	157	663	806	444	82	2106

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.1	.1	.1	.0	8	.0	.4
9/10	.0	.0	.0	.1	.2	.3	.4	.0	.0	20	.0	.9
7/8	.0	.0	.0	.2	.3	.5	.4	*	.0	34	.0	1.5
6	.0	.0	.0	.2	.5	.8	.1	.0	.0	37	.0	1.6
5	.0	.0	*	.1	1.1	1.0	.2	.0	.0	57	.0	2.5
4	.0	.0	*	.7	1.7	.7	*	.0	.0	72	*	3.1
3	.0	.0	.1	.8	3.0	1.0	.0	.0	.0	112	.0	4.9
2	.0	.0	.1	2.4	5.2	.8	.0	.0	.0	192	.0	8.5
1	.0	.0	.4	6.2	6.9	.2	.0	.0	.0	310	.1	13.6
0	.0	.0	.6	10.0	6.6	.2	.0	.0	.0	394	.2	17.2
-1	.0	.1	.7	11.2	3.4	.0	*	.0	.0	350	.1	15.4
-2	.0	.0	1.2	9.0	1.5	.0	.0	.0	.0	265	.0	11.7
-3	.0	.1	1.8	4.7	.6	.0	.0	.0	.0	164	.1	7.2
-4	.0	.3	1.3	2.7	.2	.0	.0	.0	.0	102	.0	4.5
-5	.0	*	1.4	.8	.1	.0	.0	.0	.0	55	.0	2.4
-6	.0	.2	.6	.8	.0	.0	.0	.0	.0	35	.0	1.5
-7/-8	.0	.2	.8	.6	.0	.0	.0	.0	.0	35	.0	1.5
-9/-10	.0	.2	.4	.0	.0	.0	.0	.0	.0	14	*	.6
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
TOTAL	4	29	215	1145	709	126	31	4	1	2264	14	2250
PCT	.2	1.3	9.5	50.6	31.3	5.6	1.4	.2	*	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	3.0	.9	.0	.0	.0	4.1
3-4	.0	2.4	3.0	.0	.0	.0	5.3
5-6	.0	.7	3.3	.1	.0	.0	4.1
7	.0	.1	1.6	.4	.0	.0	2.1
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.6	9.1	.9	.0	.0	16.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.7
1-2	.1	10.9	2.0	.0	.0	.0	13.0
3-4	.0	6.0	8.3	.2	.0	.0	14.5
5-6	.1	1.2	5.9	.5	.0	.0	7.7
7	.0	.2	2.4	.3	.0	.0	2.9
8-9	.0	.0	.3	.2	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	19.9	18.8	1.3	.0	.0	40.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.6
1-2	.1	5.7	.4	.0	.0	.0	6.2
3-4	.0	3.9	1.4	.0	.0	.0	5.3
5-6	.0	.9	1.2	.2	.0	.0	2.3
7	.0	.2	.4	.0	.0	.0	.6
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	12.0	3.4	.3	.0	.0	16.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.5
1-2	.0	3.3	.6	.0	.0	.0	3.8
3-4	.1	.9	2.7	.0	.0	.0	3.7
5-6	.0	.4	1.0	.1	.0	.0	1.5
7	.0	.0	.7	.2	.0	.0	1.0
8-9	.0	.1	.2	.1	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.9	5.2	.5	.0	.0	11.0

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.2
1-2	.2	1.8	.6	.0	.0	.0	2.6	.0	.8	*	.0	.0	.0	.8
3-4	.0	1.0	3.3	.2	.0	.0	4.5	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.4	1.3	.3	.1	.0	2.2	.0	.1	.3	*	.0	.0	.4
7	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.4	5.3	1.3	.2	.0	10.4	.1	1.0	.7	.1	.0	.0	1.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.4	.1	.0	.0	.0	.6	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.5	.1	.0	.0	.0	.6	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.5	.0	.1	.0	.0	.7	.0	.9	.3	.1	.0	.0	1.3	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	3.8	.0	.0	.0	.0	7.0	
1-2	1.1	25.8	4.6	.0	.0	.0	31.5	
3-4	.1	14.6	18.7	.5	.0	.0	33.9	
5-6	.1	3.7	12.8	1.4	.1	.0	18.1	
7	.0	.6	5.1	1.3	.1	.0	7.1	
8-9	.0	.1	.8	1.1	.0	.0	2.1	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								875
TOT PCT	4.6	48.6	42.1	4.6	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	12.9	16.4	7.0	2.8	.9	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	757	3
6-7	.1	1.5	11.1	13.5	4.5	2.1	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	596	5
8-9	.0	.3	1.5	3.5	3.4	1.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	6
10-11	.0	.3	.4	1.3	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	6
12-13	.0	.0	.3	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
>13	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
INDET	1.7	2.0	1.8	1.5	1.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	3
TOTAL	61	304	562	487	231	79	39	15	5	0	0	0	0	0	0	0	0	0	0	1783	4
PCT	3.4	17.0	31.5	27.3	13.0	4.4	2.2	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.7	1.6	1.6	.0	.0	.0	.0	8.9	3.3	3.7	.8	.2	.7		.0	82.9
NE	3.4	1.3	1.6	.0	.0	.0	.0	6.2	3.3	1.2	.5	.0	.5		.0	88.3
E	4.8	2.7	4.9	.0	.0	.0	.0	11.7	3.5	.4	.0	.0	.0		.0	84.5
SE	9.1	2.9	2.6	.0	.0	.0	.0	14.3	3.7	1.1	.7	.0	.0		.0	80.2
S	8.8	4.9	3.2	.0	.0	.0	.0	16.6	3.9	.6	.3	.0	.0		.3	78.2
SW	11.0	7.4	3.0	.0	.0	.0	.0	21.1	8.3	1.8	.0	.0	.0		.0	69.7
W	22.4	6.9	6.0	.0	.0	.0	.0	29.3	13.8	.0	.0	.0	.0		.0	56.9
NW	12.4	5.0	7.0	.0	.0	.0	.0	24.4	5.0	1.2	.0	.0	2.5		.0	67.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.5	.0	.0	.0		.0	90.9
TOT PCT	6.2	2.6	2.6	.0	.0	.0	.0	11.2	3.8	1.5	.4	*	.4		*	82.7
TOT OBS:	2468															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	5.3	2.6	2.1	.0	.0	.0	.0	9.7	3.5	3.9	.3	.0	.0		.2	82.6
06609	7.7	2.7	3.2	.0	.0	.0	.0	13.0	4.6	2.4	.2	.0	.5		.0	79.7
12615	6.0	2.5	3.2	.0	.0	.0	.0	11.7	2.5	.1	.6	.1	.3		.0	84.8
18621	6.3	2.9	1.9	.0	.0	.0	.0	10.7	5.0	.0	.6	.0	.6		.0	83.0
TOT PCT	6.3	2.7	2.6	.0	.0	.0	.0	11.3	3.9	1.6	.4	*	.4		*	82.6
TOT OBS:	2515															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	6.6	10.8	1.6	.1	.0		19.5	13.3	17.3	17.4	17.1	14.8	22.5	21.9	22.3	16.9
NE	.8	15.4	14.2	1.6	*	.0		32.0	11.6	39.0	33.8	32.3	32.6	29.2	30.6	30.7	35.1
E	1.1	8.9	4.6	.3	*	*		14.9	9.8	15.4	17.7	14.8	19.9	12.2	14.4	13.3	20.8
SE	.7	7.3	5.1	.6	*	*		13.7	10.7	13.8	16.8	16.3	13.5	12.9	11.2	12.4	11.3
S	.5	4.2	5.3	1.0	.1	.0		11.1	12.7	12.9	9.1	9.9	10.3	12.8	10.2	12.2	8.6
SW	.2	1.7	1.5	.3	.0	.0		3.7	11.8	3.2	2.6	3.7	4.1	4.5	3.8	4.2	2.9
W	.2	.5	.3	.1	.0	.0		1.1	8.9	.5	.5	1.4	1.0	1.4	1.9	.9	1.0
NW	.2	1.3	1.0	.2	*	.0		2.5	10.8	1.1	1.4	2.8	3.1	3.6	3.6	2.4	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.8	.6	1.7	.7	.9	2.3	1.6	1.3
TOT OBS	453	3730	3484	463	22	1	8153		11.5	1243	988	1458	302	1252	1152	1474	304
TOT PCT	5.6	45.8	42.7	5.7	.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	11.4	5.4	.4	*		19.5	13.3	17.3	16.7	22.2	21.4
NE	5.6	20.2	5.9	.4	.0		32.0	11.6	34.5	32.3	29.9	31.5
E	4.4	8.7	1.7	.1	*		14.9	9.8	16.4	15.7	13.3	14.6
SE	3.2	8.5	2.0	.1	*		13.7	10.7	15.1	15.8	12.1	12.2
S	2.0	6.1	2.7	.3	.0		11.1	12.7	11.2	10.0	11.6	11.6
SW	.8	2.0	.7	.1	.0		3.7	11.8	2.9	3.7	4.1	4.0
W	.5	.5	.1	*	.0		1.1	8.9	.5	1.3	1.6	.9
NW	.8	1.4	.4	.1	.0		2.5	10.8	1.3	2.9	3.6	2.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.7	1.5	1.6	1.5
TOT OBS	1701	4790	1535	124	3	8153		11.5	2211	1760	2404	1778
TOT PCT	20.9	58.8	18.8	1.5	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	4.3	45.8	42.0	6.8	.4	.0	11.7	100.0	2211
06&09	1.5	4.3	46.1	42.6	5.2	.2	.1	11.3	100.0	1760
12&15	1.6	4.3	47.0	41.3	5.6	.2	.0	11.3	100.0	2404
18&21	1.5	4.0	43.6	45.8	4.8	.2	.0	11.5	100.0	1778
TOT	108	345	3730	3484	463	22	1	11.5		8153
PCT	1.3	4.2	45.8	42.7	5.7	.3	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	4.0	5.6	5.1		4.8
NE	8.7	6.3	10.5	5.5		4.5
E	4.7	2.7	3.8	3.2		4.4
SE	2.6	1.8	4.1	3.9		5.3
S	1.5	2.4	4.7	5.3		5.9
SW	.2	.5	2.0	1.5		6.5
W	*	.0	.3	.7		7.3
NW	.2	.1	1.3	1.0		6.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.4		5.8
TOT OBS	459	359	653	534	2005	5.0
TOT PCT	22.9	17.9	32.6	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.3	1.6	2.2	1.3	1.4	.1	*	*	12.3	
NE	.1	.1	.4	2.0	2.9	1.9	1.1	.4	.2	.2	21.7	
E	*	.0	.1	1.0	1.7	.6	1.0	.2	*	.0	9.7	
SE	.1	.0	.1	1.3	1.8	1.5	.8	.2	.1	*	6.4	
S	.3	.0	.3	1.6	2.5	1.8	.7	.1	*	*	6.6	
SW	.1	.0	.1	.6	.6	.8	.3	.0	*	.0	1.6	
W	*	.0	.1	.2	.3	.1	.1	*	.0	.0	.2	
NW	.1	.0	.1	.2	.4	.5	.2	.1	.0	*	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.3	
TOT OBS	19	3	30	172	253	173	115	26	8	7	1199	2005
TOT PCT	.9	.1	1.5	8.6	12.6	8.6	5.7	1.3	.4	.3	59.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.3	1.6	1.8	2.0	2.0	2.0	2.0	2.0
* OR >3500	4.7	6.4	7.4	7.6	7.6	7.7	7.7	7.7
* OR >2000	11.3	14.3	15.7	16.0	16.1	16.2	16.3	16.3
* OR >1000	20.7	26.3	27.9	28.5	28.6	28.7	28.8	28.8
* OR >600	26.6	34.2	36.2	36.9	37.2	37.3	37.4	37.4
* OR >300	27.5	35.5	37.7	38.5	38.7	38.9	38.9	38.9
* OR >150	27.5	35.6	37.9	38.6	38.9	39.0	39.1	39.1
* OR > 0	27.7	36.1	38.5	39.4	39.8	40.0	40.1	40.1
TOTAL	561	731	781	798	807	810	813	813

TOTAL NUMBER OF OBS: 2026

PCT FREQ NH <5/8: 59.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.0	14.8	16.1	12.4	9.4	7.0	8.1	7.9	16.5 .8	2131

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	.0	.0	.1	.1	.1	*	.0	.0	.3	
	NO PCP	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.1	.1	.1	*	.0	.0	.4	
1<2	PCP	.2	.1	.1	.1	.1	.1	.0	.1	.0	.0	.7	
	NO PCP	.1	.2	.0	*	*	*	*	.0	.0	.0	.4	
	TOT %	.3	.3	.1	.1	.2	.1	*	.1	.0	.0	1.1	
2<5	PCP	.2	.2	.2	.2	.1	.1	.0	.2	.0	.0	1.1	
	NO PCP	.4	.5	.2	.2	.2	.3	.1	.1	.0	.0	2.1	
	TOT %	.6	.7	.4	.4	.4	.4	.1	.3	.0	.0	3.2	
5<10	PCP	.9	.9	.9	.9	1.3	.5	.2	.2	.0	.0	5.8	
	NO PCP	2.3	4.9	1.5	1.6	1.6	.7	.2	.4	.0	.1	13.3	
	TOT %	3.2	5.9	2.4	2.4	2.9	1.3	.4	.6	.0	.1	19.1	
10+	PCP	.5	.7	.5	.6	.5	.2	.1	.1	.0	.0	3.1	
	NO PCP	15.3	23.6	11.1	8.8	9.0	2.4	.5	1.3	.0	.8	72.9	
	TOT %	15.8	24.3	11.5	9.4	9.5	2.6	.6	1.4	.0	.8	76.0	
	TOT OBS												2467
	TOT PCT	19.9	31.2	14.4	12.4	13.1	4.4	1.2	2.5	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	*	.0	.0	.0		.1	
	11-21	*	.0	.0	*	.1	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.1	*	.0	*	.0	.0	.2	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	*	.0	.0	*	*	*	*	.0		.1	
	11-21	.0	*	.0	.0	*	*	*	.0	.0		.1	
	22+	*	*	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	.1	.0	.0	.1	.1	.1	.1	.0	.0	.3	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.1	.1	.1	.1	.1	*	.0	*	.0		.5	
	11-21	.1	.2	*	.1	.1	*	*	*	.0		.6	
	22+	*	*	.0	*	*	*	.0	.0	.0		.1	
	TOT %	.3	.2	.2	.2	.2	.1	*	.1	.0	.0	1.3	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.3	
	4-10	.2	.3	.3	.3	.2	.2	.1	.1	.0		1.7	
	11-21	.3	.4	.1	.2	.3	.2	.1	.1	.0		1.7	
	22+	.1	*	.0	.1	.2	.1	.0	*	.0		.5	
	TOT %	.7	.8	.5	.6	.7	.5	.2	.2	.0	*	4.2	
5<10	0-3	.2	.1	.1	.0	.1	.1	.1	*	.0	.1	.8	
	4-10	.7	1.8	1.0	1.0	.7	.6	.2	.3	.0		6.4	
	11-21	1.9	2.8	1.0	1.2	1.6	.5	.1	.2	.0		9.2	
	22+	.2	.2	*	.1	.3	.1	*	.1	.0		1.1	
	TOT %	3.0	4.9	2.1	2.4	2.7	1.2	.4	.6	.0	.1	17.5	
10+	0-3	.5	.7	.9	.6	.5	.2	.1	*	.0	.9	4.4	
	4-10	5.6	12.9	7.4	6.1	4.0	1.4	.3	.6	.0		38.2	
	11-21	8.8	11.6	2.7	3.3	3.7	1.0	.1	.5	.0		31.8	
	22+	1.0	.5	.1	.2	.4	*	*	*	.0		2.2	
	TOT %	15.9	25.7	11.1	10.2	8.5	2.6	.5	1.2	.0	.9	76.5	
	TOT OBS												4337
	TOT PCT	19.9	31.7	13.9	13.4	12.2	4.5	1.1	2.2	.0	1.1	100.0	

NOVEMBER

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.3	.2	.6	7.5	12.8	7.5	4.3	.8	.0	.2	36.2	63.8	483
06&09	1.5	.0	3.5	9.8	12.5	8.5	5.2	1.9	.2	.4	43.5	56.5	481
12&15	.3	.2	1.4	8.4	11.7	7.4	7.2	1.5	1.0	.2	39.4	60.6	581
18&21	.2	.2	.7	7.7	11.9	9.9	5.7	.7	.2	.5	37.7	62.3	547
TOT	21	3	32	174	255	174	119	26	8	7	819	1273	2092
PCT	1.0	.1	1.5	8.3	12.2	8.3	5.7	1.2	.4	.3	39.1	60.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.3	1.2	4.3	18.7	75.4	1200
06&09	.3	.7	1.2	5.3	20.1	72.3	972
12&15	.4	.2	1.1	4.4	16.1	77.8	1225
18&21	.1	.2	1.5	3.0	15.4	79.7	987
TOT	11	15	55	187	768	3348	4384
PCT	.3	.3	1.3	4.3	17.5	76.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.4	3.2	13.6	24.6	61.8	463
06&09	1.5	6.3	18.8	26.9	54.3	464
12&15	.4	2.7	14.8	26.3	58.9	562
18&21	.2	1.5	11.5	27.0	61.5	537
TOT	21	67	295	532	1199	2026
PCT	1.0	3.3	14.6	26.3	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
85/89	.0	.0	.1	.1	.6	.6	.2	.1	32	1.7
80/84	.0	.0	.0	.4	2.7	7.8	3.7	.8	299	15.5
75/79	.0	.0	.1	.5	3.9	18.2	29.6	13.4	1270	65.7
70/74	.0	.0	.0	.1	1.9	3.2	3.8	7.5	318	16.5
65/69	.0	.0	.0	.0	.0	.1	.2	.3	11	.6
TOTAL	0	0	2	24	178	577	724	427	1932	100.0
PCT	.0	.0	.1	1.2	9.2	29.9	37.5	22.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	.0	.0	.0	.0	.0	.0	.0
.7	.5	.3	.1	.1	*	.0	*	.0	.0
4.9	6.0	2.0	1.2	.5	.2	.1	.4	.0	.2
13.1	21.8	10.0	7.9	8.0	2.3	.5	1.3	.0	.9
1.2	2.3	2.4	3.2	4.8	1.7	.2	.5	.0	.0
.0	.0	.1	.1	.2	.1	.0	.1	.0	.0
19.9	30.7	14.8	12.4	13.6	4.4	.8	2.2	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	81	79	76	72	69	67	76.1	2210
06&09	87	81	79	76	72	69	66	75.7	1764
12&15	92	86	83	78	73	70	67	77.8	2312
18&21	92	87	84	78	73	70	68	78.3	1707
TOT	92	85	82	77	72	70	66	77.0	7993

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	5.3	23.8	44.6	26.3	84	495
06&09	.0	.2	6.6	23.8	39.8	29.6	84	442
12&15	.0	1.7	12.1	31.6	35.1	19.5	81	544
18&21	.0	3.5	12.8	39.0	30.0	14.7	79	484
TOT	0	27	183	584	733	438	82	1965

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	*	.0	.1	.1	7	.0	.3
9/10	.0	.0	.0	*	*	.4	.0	11	.0	.5
7/8	.0	.0	.1	.5	.4	.5	.0	32	*	1.5
6	.0	*	*	.1	.8	.2	*	25	.0	1.2
5	.0	.0	.2	.6	.9	.2	.0	41	.0	1.9
4	.0	.0	.4	1.6	1.9	.1	.0	85	.0	4.0
3	.0	*	.5	2.6	1.4	.1	.0	99	.1	4.6
2	.0	*	1.5	5.5	2.0	.0	.0	190	.0	9.0
1	.0	.2	2.4	8.9	1.4	*	.0	273	*	12.9
0	.0	.3	6.5	10.1	.4	.0	.0	363	.1	17.1
-1	*	.2	8.4	6.9	.2	.0	.0	331	.0	15.7
-2	.1	.7	6.7	3.8	.1	.0	.0	240	.0	11.4
-3	*	.5	5.3	2.5	*	.0	.0	176	.0	8.4
-4	.1	.9	3.2	1.1	.0	.0	.0	113	*	5.3
-5	.1	.9	1.9	.5	.0	.0	.0	73	.0	3.5
-6	.0	.4	.8	*	.0	.0	.0	27	.0	1.3
-7/-8	.1	.2	.4	*	.0	.0	.0	16	.0	.8
-9/-10	*	*	*	.0	.0	.0	.0	3	.0	.1
TOTAL	12	98	808	944	203	37	4	2106	8	2098
PCT	.6	4.7	38.4	44.8	9.6	1.8	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.5
1-2	.1	2.8	2.7	.0	.0	.0	5.5
3-4	.0	1.9	3.5	.2	.0	.0	5.6
5-6	.0	.1	2.7	.7	.0	.0	3.4
7	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.0	.7	.3	.0	.0	1.0
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.1	10.6	1.7	.0	.0	17.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	*	.0	.0	.0	1.2
1-2	.1	9.4	2.3	.0	.0	.0	11.8
3-4	.0	5.9	7.6	.1	.0	.0	13.7
5-6	.0	.5	5.0	.5	.0	.0	6.1
7	.0	.1	1.3	*	.0	.0	1.4
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.1	.2	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	17.1	16.4	.7	.0	.0	34.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.3	4.7	.5	.0	.0	.0	5.5
3-4	.0	1.8	1.4	.0	.0	.0	3.2
5-6	.1	.0	1.0	.0	.0	.0	1.1
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.0	3.3	.0	.0	.0	10.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	4.1	.6	.0	.0	.0	4.8
3-4	.0	1.7	2.0	.0	.0	.0	3.8
5-6	.0	.4	.6	.1	.0	.0	1.1
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.6	3.8	.3	.0	.0	10.8

NOVEMBER

PERIOD: (OVER-ALL) 1963-1973 — AREA 0008 VITORIA NE 18.6S 38.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.4	3.5	1.3	.0	.0	.0	5.2
3-4	.1	1.8	4.7	.3	.0	.0	6.9
5-6	.0	.5	1.9	.4	.0	.0	2.8
7	.0	.1	.8	.3	.0	.0	1.1
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	8.9	1.2	.0	.0	17.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.0	1.4	.8	.0	.0	.0	2.1
3-4	.1	.4	1.0	.1	.0	.0	1.6
5-6	.0	.1	.7	*	.0	.0	.8
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.2	*	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	2.7	.1	.0	.0	5.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.0	.4	.0	.0	.0	.5
3-4	.0	.2	.3	.0	.0	.0	.4
5-6	.0	.0	.2	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.9	.2	.0	.0	1.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.6	.3	.0	.0	.0	.9	
3-4	.0	.2	.4	.0	.0	.0	.6	
5-6	.0	.0	.3	*	.0	.0	.3	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	1.0	.1	.0	.0	1.9	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	2.4	.1	.0	.0	.0	4.4	
1-2	1.5	26.4	8.7	.0	.0	.0	36.6	
3-4	.2	13.9	20.7	.6	.0	.0	35.4	
5-6	.1	1.6	12.3	1.8	.0	.0	15.8	
7	.0	.4	3.7	.5	.0	.0	4.6	
8-9	.0	.2	1.3	.5	.0	.0	2.0	
10-11	.0	.1	.3	.4	.0	.0	.8	
12	.0	.0	.2	.1	.0	.0	.3	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1003
TOT PCT	3.7	45.0	47.3	4.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	14.2	18.3	8.1	1.5	.6	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	773	3
6-7	.0	1.2	10.8	12.9	4.9	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	536	5
8-9	.0	.3	2.2	3.4	3.0	.8	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175	6
10-11	.0	.2	.3	.6	.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
12-13	.0	.0	.5	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
>13	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	.8	2.1	4.1	1.5	.5	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	3
TOTAL	47	308	622	466	182	59	17	7	8	1	0	0	0	0	0	0	0	0	0	1717	4
PCT	2.7	17.9	36.2	27.1	10.6	3.4	1.0	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	1.7	1.6	.0	.0	.0	.0	6.4	3.4	1.9	.7	.0	1.0		.1	86.8
NE	2.4	1.5	.9	.0	.0	.0	.0	4.7	2.8	1.4	.3	.0	.3		*	90.5
E	1.4	2.0	1.8	.0	.0	.0	.0	5.2	2.0	.9	.3	.0	.2		.0	91.3
SE	4.5	4.0	5.2	.0	.0	.0	.0	13.2	4.3	.2	.0	.0	.0		.0	82.3
S	7.8	2.7	5.4	.0	.0	.0	.0	14.6	6.0	.0	.0	.0	.0		.0	79.4
SW	19.8	2.6	3.6	.0	.0	.0	.0	26.0	4.5	1.3	.0	.0	.0		.0	69.5
W	11.6	7.0	.0	.0	.0	.0	.0	18.6	.0	4.7	.0	.0	.0		.0	76.7
NW	7.7	4.4	2.2	.0	.0	.0	.0	14.4	8.1	6.3	.0	.0	1.5		.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.0	.0	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	.0		.0	90.0
TOT PCT	3.9	2.1	2.1	.0	.0	.0	.0	7.9	3.4	1.4	.3	.0	.4		*	86.6
TOT OBS:	2286															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.2	2.8	3.3	.0	.0	.0	.0	9.1	2.2	3.5	.4	.0	.4		.2	84.4
06&09	4.3	2.0	2.1	.0	.0	.0	.0	8.2	4.3	2.1	.5	.0	.4		.0	84.8
12&15	4.6	2.6	1.0	.0	.0	.0	.0	8.1	3.7	.2	.3	.0	.5		.0	87.4
18&21	3.5	1.2	2.1	.0	.0	.0	.0	6.4	3.5	.0	.2	.0	.5		.0	89.5
TOT PCT	3.9	2.1	2.1	.0	.0	.0	.0	7.9	3.4	1.4	.3	.0	.4		*	86.6
TOT OBS:	2338															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	8.3	13.0	1.9	*	.0		23.8	13.0	18.8	17.9	23.1	20.6	30.6	26.9	25.5	21.4
NE	1.3	17.9	15.1	1.5	*	.0		35.8	11.2	40.4	39.2	35.1	39.4	29.5	33.7	36.6	37.6
E	.9	9.1	4.1	.2	.0	.0		14.2	9.2	14.1	14.9	15.7	16.3	13.9	12.3	12.8	19.2
SE	.4	5.8	4.0	.4	*	.0		10.6	10.5	11.7	13.2	11.5	11.1	9.4	10.2	8.7	9.4
S	.4	2.8	3.3	.7	*	.0		7.2	12.7	8.5	8.0	6.9	4.4	7.2	6.2	7.7	4.3
SW	.2	1.2	1.3	.3	*	.0		2.9	12.2	2.4	1.8	2.2	1.9	3.7	3.5	3.5	3.8
W	.1	.7	.2	*	.0	.0		1.0	7.8	.7	1.4	.7	.6	1.1	1.3	1.2	.4
NW	.3	1.5	1.2	.2	*	.0		3.2	11.1	2.0	2.5	3.0	4.1	3.9	4.5	2.9	3.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.4	1.1	1.8	1.6	.8	1.5	1.1	.8
TOT OBS	421	3572	3202	384	9	0	7588		11.2	1151	887	1386	258	1198	1036	1416	256
TOT PCT	5.5	47.1	42.2	5.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	13.6	7.0	.1	.0		23.8	13.0	18.4	22.7	28.9	24.8
NE	6.0	24.3	5.2	.2	.0		35.8	11.2	39.9	35.8	31.4	36.8
E	4.6	8.5	1.1	*	.0		14.2	9.2	14.4	15.8	13.2	13.8
SE	2.7	6.3	1.5	.1	.0		10.6	10.5	12.4	11.4	9.8	8.8
S	1.2	3.9	1.9	.2	*		7.2	12.7	8.3	6.5	6.7	7.2
SW	.6	1.6	.6	.1	*		2.9	12.2	2.1	2.1	3.6	3.6
W	.5	.4	.1	*	.0		1.0	7.8	1.0	.7	1.2	1.0
NW	.9	1.5	.7	*	.0		3.2	11.1	2.2	3.2	4.2	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.3	1.8	1.1	1.1
TOT OBS	1592	4568	1373	54	1	7588		11.2	2038	1644	2234	1672
TOT PCT	21.0	60.2	18.1	.7	*		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	3.7	46.7	43.0	5.3	.1	.0	11.3	100.0	2038
06&09	1.8	4.1	48.7	40.9	4.4	.2	.0	11.0	100.0	1644
12&15	1.1	4.8	46.6	41.5	5.7	.1	.0	11.2	100.0	2234
18&21	1.1	4.4	46.5	43.4	4.6	.1	.0	11.2	100.0	1672
TOT	98	323	3572	3202	384	9	0	11.2		7588
PCT	1.3	4.3	47.1	42.2	5.1	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.5	4.6	9.2	4.8		4.8
NE	11.2	8.2	11.2	3.9		4.1
E	5.2	3.8	4.7	2.1		4.1
SE	1.4	1.9	3.0	3.1		5.5
S	.4	1.2	2.7	2.6		6.2
SW	.1	.2	1.3	1.7		6.8
W	.1	*	.4	.5		6.6
NW	.3	.6	.9	1.3		5.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.3		4.1
TOT OBS	477	384	625	379	1865	4.7
TOT PCT	25.6	20.6	33.5	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.1	.5	1.6	2.9	1.3	1.1	.3	.1	.3	17.0	
NE	.1	.1	.2	1.4	3.2	1.7	.8	.2	.1	.1	26.8	
E	.1	.1	.1	.8	1.6	1.0	.3	.3	.0	.1	11.6	
SE	.0	.0	.3	.8	1.4	1.3	.4	*	.0	*	5.0	
S	.0	.0	.2	.9	1.4	.8	.4	.1	.0	.0	3.0	
SW	.0	.1	.1	.6	.7	.6	.3	.0	.0	.0	1.0	
W	.0	.0	*	.2	.1	.1	.1	.0	.0	.0	.5	
NW	.0	.0	.1	.2	.8	.1	.2	.0	.1	.1	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.6	
TOT OBS	4	5	30	121	228	131	66	15	5	10	1250	1865
TOT PCT	.2	.3	1.6	6.5	12.2	7.0	3.5	.8	.3	.5	67.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * DR >10	* DR >5	* DR >2	* DR >1	* DR >1/2	* DR >1/4	* DR >50YD	* DR >0
* DR >6500	.7	.8	.8	.8	.8	.8	.8	.8
* DR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* DR >3500	3.4	4.8	5.3	5.3	5.3	5.3	5.3	5.3
* DR >2000	8.5	11.1	12.1	12.2	12.3	12.3	12.3	12.3
* DR >1000	18.8	22.8	24.2	24.4	24.4	24.4	24.4	24.4
* DR >600	23.2	29.1	30.6	30.8	30.8	30.8	30.8	30.8
* DR >300	24.1	30.5	32.3	32.4	32.5	32.5	32.5	32.5
* DR >150	24.3	30.7	32.5	32.7	32.7	32.7	32.7	32.7
* DR > 0	24.3	30.9	32.8	32.9	33.0	33.0	33.0	33.0
TOTAL	459	583	619	622	623	623	623	623

TOTAL NUMBER OF OBS: 1888

PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.8	16.6	17.5	14.9	8.7	6.1	6.9	8.5	11.8	.3	1995

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1/2<1	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
1<2	PCP	*	.1	.0	.0	*	.1	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	*	*	*	*	.0	.0	.0	.3	
	TOT %	.2	.1	.0	*	.1	.1	*	.0	.0	.0	.4	
2<5	PCP	.3	.2	.1	.1	.4	.2	*	.0	.0	*	1.4	
	NO PCP	.3	.4	.1	.2	*	.1	.0	.1	.0	*	1.2	
	TOT %	.6	.6	.2	.3	.4	.3	*	.1	.0	.1	2.6	
5<10	PCP	.7	.8	.5	.8	.4	.3	.1	.2	.0	.0	3.7	
	NO PCP	4.2	3.4	1.5	1.4	1.0	.5	*	.4	.0	.1	12.5	
	TOT %	4.8	4.2	2.0	2.2	1.4	.7	.1	.7	.0	.1	16.1	
10+	PCP	.7	.5	.2	.4	.2	.4	*	.2	.0	.0	2.6	
	NO PCP	19.4	28.2	13.2	6.8	5.2	2.0	.7	1.9	.0	.7	78.1	
	TOT %	20.1	28.8	13.4	7.2	5.4	2.3	.7	2.1	.0	.7	80.7	
	TOT OBS												2285
	TOT PCT	25.6	33.6	15.6	9.7	7.3	3.4	.9	3.0	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.0	*	.0	.0	*	*	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	*	*	.1	.0	.0	.0	.0		.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.0	*	*	*	.1	.0	.0	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	.1	*	.0	.0	.0	.0		.2	
	11-21	.1	.0	*	*	*	*	*	.0	.0		.2	
	22+	*	*	.0	*	.1	*	.0	.0	.0		.2	
	TOT %	.1	.1	.1	.1	.1	*	*	.0	.0	*	.6	
2<5	0-3	.0	*	*	*	.1	.0	.0	.0	.0	.1	.2	
	4-10	.3	.3	.2	.1	.2	.1	.1	.1	.0		1.3	
	11-21	.5	.3	.1	.1	.2	.1	.0	.1	.0		1.5	
	22+	.1	*	.0	.0	.1	*	.0	.0	.0		.2	
	TOT %	.9	.7	.3	.3	.5	.3	.1	.3	.0	.1	3.3	
5<10	0-3	.1	.1	*	.1	*	.0	.0	*	.0	.1	.4	
	4-10	1.4	1.7	1.0	.7	.5	.3	.1	.3	.0		6.1	
	11-21	2.5	1.8	.6	.9	1.0	.5	*	.3	.0		7.7	
	22+	.5	.3	*	.1	.1	.1	.0	.1	.0		1.2	
	TOT %	4.5	3.9	1.7	1.8	1.6	.9	.2	.7	.0	.1	15.4	
10+	0-3	.5	1.1	.9	.2	.4	.2	.1	.2	.0	1.0	4.7	
	4-10	6.5	15.3	8.1	3.8	2.2	.9	.4	1.0	.0		38.2	
	11-21	11.9	13.4	3.0	2.2	2.3	.9	.2	.7	.0		34.5	
	22+	1.3	.9	*	.1	.3	.2	*	*	.0		2.9	
	TOT %	20.1	30.9	12.1	6.4	5.2	2.1	.7	1.9	.0	1.0	80.4	
	TOT OBS												4025
	TOT PCT	25.6	35.5	14.2	8.6	7.5	3.4	1.0	3.0	.0	1.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.7	1.9	6.5	12.4	7.7	2.3	.6	.2	.5	33.2	66.8	428
06&09	.4	.0	2.0	4.9	12.2	6.7	3.1	1.3	.4	.7	31.8	68.2	450
12&15	.0	.4	1.1	8.0	10.4	5.9	4.1	.9	.4	.4	31.5	68.5	540
18&21	.2	.0	1.5	5.3	12.2	6.9	4.5	.4	.2	.6	31.7	68.3	533
TOT	5	5	31	121	229	132	70	15	6	10	624	1327	1951
PCT	.3	.3	1.6	6.2	11.7	6.8	3.6	.8	.3	.5	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.7	3.1	16.8	79.1	1087
06&09	.2	.1	.6	3.5	18.5	77.1	908
12&15	.0	.4	1.2	4.2	13.4	81.0	1130
18&21	.0	.3	.4	2.9	14.1	82.2	952
TOT	3	9	30	141	636	3258	4077
PCT	.1	.2	.7	3.5	15.6	79.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	3.1	11.6	22.9	65.5	414
06&09	.5	2.6	9.9	24.9	65.3	426
12&15	.0	1.5	13.3	19.7	67.0	528
18&21	.2	1.9	9.0	24.2	66.7	520
TOT	5	42	207	431	1250	1888
PCT	.3	2.2	11.0	22.8	66.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.0	.0	6	.3
85/89	.0	.0	.0	.2	1.4	1.6	.3	.2	70	3.7
80/84	.0	.0	.0	.2	3.2	13.8	8.2	2.2	521	27.6
75/79	.0	.0	.0	.2	1.4	14.3	31.0	14.3	1154	61.2
70/74	.0	.0	.0	.0	.3	.8	2.5	3.4	134	7.1
65/69	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	11	122	579	792	382	1886	100.0
PCT	.0	.0	.0	.6	6.5	30.7	42.0	20.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.2	*	*	.0	.0	.0	.0	.0	.0
1.6	1.4	.6	.1	.0	.1	.0	.1	.0	.0
8.5	11.1	4.3	1.2	.8	.5	.2	.7	.0	.3
15.3	19.8	10.3	6.3	4.8	1.8	.5	1.9	.0	.5
1.1	1.0	.6	1.7	1.8	.7	.1	.1	.0	.1
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
26.6	33.4	15.9	9.3	7.5	3.0	.8	2.7	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	82	81	78	73	71	68	77.4	2029
06&09	90	82	81	77	73	71	68	77.1	1642
12&15	93	88	84	79	74	71	68	79.2	2178
18&21	93	90	86	80	74	72	65	79.7	1612
TOT	93	87	83	78	73	71	65	78.4	7461

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.7	23.7	50.5	23.7	84	459
06&09	.0	.0	1.8	21.0	47.9	29.4	85	453
12&15	.0	.6	9.2	34.1	38.7	17.3	81	519
18&21	.0	1.4	12.3	41.6	31.4	13.3	79	488
TOT	0	11	124	584	803	397	82	1919

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	*	.1	*	.2	*	11	.0	.5
9/10	.0	.0	.0	.1	.2	.4	.2	.0	21	.0	1.0
7/8	.0	.0	*	.4	.5	.9	.2	.0	41	.0	2.0
6	.0	.0	.1	.1	.7	.6	*	.0	32	.0	1.6
5	.0	.0	*	.4	1.3	.6	.0	.0	49	.0	2.4
4	.0	.0	*	1.1	2.0	.4	.0	.0	72	.0	3.6
3	.0	.0	.2	1.9	3.0	.1	.0	.0	106	.0	5.2
2	.0	*	.4	4.7	2.8	.1	*	.0	165	.0	8.1
1	.0	.0	.5	9.9	2.2	.0	.0	.0	257	.0	12.7
0	.0	.1	1.7	15.9	2.0	.1	.0	.0	401	*	19.7
-1	.0	*	3.6	11.5	.7	.0	.0	.0	322	.3	15.6
-2	.0	*	3.7	6.3	.3	.0	.0	.0	210	.0	10.4
-3	.0	*	3.3	3.9	*	.0	.0	.0	147	.0	7.2
-4	.0	.2	2.8	1.6	.0	.0	.0	.0	92	.0	4.5
-5	.0	.4	1.6	.4	*	.0	.0	.0	50	.0	2.5
-6	.0	.3	.8	.1	.0	.0	.0	.0	26	.0	1.3
-7/-8	*	.2	.4	.1	.0	.0	.0	.0	18	*	.8
-9/-10	.0	.2	.2	.0	.0	.0	.0	.0	8	.0	.4
TOTAL	1		397		323		16			8	2020
		33		1187		70		1	2028		
PCT	*	1.6	19.6	58.5	15.9	3.5	.8	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.1	.0	.0	.0	.6
1-2	.3	4.6	2.8	.0	.0	.0	7.7
3-4	.1	3.2	9.7	.3	.0	.0	13.3
5-6	.1	.2	4.6	.3	.0	.0	5.3
7	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.2	18.2	.8	.0	.0	28.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.2	9.4	2.4	.0	.0	.0	12.0
3-4	.0	4.4	8.8	.2	.0	.0	13.4
5-6	.0	1.2	4.0	.5	.0	.0	5.7
7	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	15.3	16.5	1.0	.0	.0	33.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	1.0
1-2	.5	4.2	.9	.0	.0	.0	5.6
3-4	.0	3.2	1.5	.0	.0	.0	4.7
5-6	.0	.5	.9	.0	.0	.0	1.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.7	3.8	.0	.0	.0	13.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	.7	.0	.0	.0	4.0
3-4	.0	.9	2.6	.0	.0	.0	3.5
5-6	.0	.1	.9	*	.0	.0	1.0
7	.0	.1	.5	.2	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	4.8	.2	*	.0	9.4

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0008 VITORIA NE
18.6S 38.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.7	.5	.0	.0	.0	1.3
3-4	.0	1.0	.8	.2	.0	.0	1.9
5-6	.0	.1	1.5	.1	.0	.0	1.7
7	.0	.0	.4	.5	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	3.6	.9	.1	.0	6.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.4	.6	.3	.0	.0	1.4
5-6	.0	*	1.0	.0	.0	.0	1.0
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	1.8	.6	.0	.0	3.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.1	.0	.0	.0	.3
3-4	.0	.6	.1	.0	.0	.0	.6
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	.1	.0	.0	1.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	
1-2	.1	1.3	.2	.0	.0	.0	1.6	
3-4	*	.7	.6	.0	.0	.0	1.4	
5-6	.0	.1	.3	.2	.0	.0	.6	
7	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.1	1.3	.2	.0	.0	3.8	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	1.5	.1	.0	.0	.0	3.6	
1-2	1.2	24.5	7.6	.0	.0	.0	33.4	
3-4	.1	14.3	24.6	1.0	.0	.0	40.0	
5-6	.1	2.2	13.2	1.2	.0	.0	16.7	
7	.0	.1	3.0	1.1	.0	.0	4.2	
8-9	.0	.0	.9	.2	.0	.0	1.1	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.0	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								812
TOT PCT	3.4	42.6	50.1	3.7	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	13.6	20.2	8.6	2.8	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	751	3
6-7	.1	1.2	10.8	11.3	3.7	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	5
8-9	.0	.3	4.0	3.7	2.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	5
10-11	.0	.3	.4	.7	.6	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
12-13	.0	.0	.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
>13	.0	.0	.0	.2	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	10
INDET	.7	2.0	3.9	1.4	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	4
TOTAL	27	280	699	419	172	37	18	8	5	0	1	0	0	0	0	0	0	0	0	1606	4
PCT	1.7	17.4	39.8	26.1	10.7	2.3	1.1	.5	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1909-1974
(OVER-ALL) 1854-1974

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.1	1.4	.7	.0	.0	.0	.0	4.1	2.1	1.9	.9	*	.5		*	90.5
NE	1.4	1.5	.6	.0	.0	.0	.0	3.5	2.0	1.0	.6	*	.2		*	92.6
E	1.8	2.8	1.0	.0	.0	.0	.0	5.5	3.1	.7	.5	.0	.1		*	90.1
SE	3.6	3.3	1.3	.0	.0	.0	*	8.1	4.1	.8	.2	.0	.2		*	86.5
S	4.9	4.0	2.2	.0	.0	.0	.0	10.8	5.6	.5	.2	.0	.2		*	82.7
SW	7.5	3.5	2.1	.0	.0	.0	.0	13.0	4.6	1.3	.6	*	.6		.0	80.4
W	7.2	3.9	1.7	.0	.0	.0	.0	12.2	5.9	2.5	.1	.4	.4		.0	78.6
NW	5.2	2.2	1.8	.0	.0	.0	.0	9.2	4.0	2.7	.4	.0	.9		.2	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.7	.2	.7	.0	.0	.0	.0	2.6	2.4	1.1	.1	.0	1.1		.0	92.7
TOT PCT	2.5	2.4	1.0	.0	.0	.0	*	5.8	3.2	1.1	.5	*	.3		*	89.2
TOT OBS: 29401																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	2.6	1.2	.0	.0	.0	.0	5.8	2.5	2.4	.5	.0	.2		.1	88.6
06&09	2.9	2.5	1.2	.0	.0	.0	.0	6.4	3.9	2.1	.6	*	.2		*	86.9
12&15	2.7	2.6	.8	.0	.0	.0	*	6.0	3.0	.1	.5	*	.3		*	90.1
18&21	2.4	2.1	.9	.0	.0	.0	.0	5.2	3.3	.1	.5	.0	.3		*	90.7
TOT PCT	2.5	2.4	1.0	.0	.0	.0	*	5.8	3.2	1.1	.5	*	.3		*	89.2
TOT OBS: 30120																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.5	6.7	.7	*	.0		14.6	11.0	12.1	11.7	13.1	11.8	18.0	17.1	16.6	10.9
NE	1.4	15.5	9.6	.7	*	*		27.2	9.8	30.8	29.0	27.9	25.9	25.0	24.0	27.4	25.7
E	1.6	13.1	5.5	.4	*	*		20.5	9.1	20.5	21.9	21.7	26.2	19.1	19.9	18.2	24.8
SE	1.3	10.0	6.6	.9	*	*		18.8	10.2	18.2	21.2	19.8	22.7	17.4	18.6	16.7	22.1
S	.7	3.9	4.0	1.0	.1	*		9.6	12.0	11.3	9.3	9.1	6.9	9.6	8.5	10.6	8.7
SW	.3	1.5	1.3	.3	*	*		3.4	11.2	3.2	2.5	2.8	1.8	4.1	3.9	4.6	2.4
W	.2	.6	.2	*	*	.0		1.1	7.8	.5	.8	1.0	.6	1.5	1.7	1.1	.9
NW	.3	1.3	.7	.1	*	.0		2.4	9.3	1.2	1.5	2.0	2.4	3.6	3.8	2.3	2.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.3	2.1	2.6	1.7	1.7	2.4	2.5	2.1
TOT OBS							99271		10.1	14887	11677	17917	3690	15277	13918	18302	3603
TOT PCT	8.8	52.4	34.7	4.0	.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	8.6	2.9	.1	*		14.6	11.0	11.9	12.9	17.6	15.7
NE	7.0	17.1	3.0	.1	*		27.2	9.8	30.0	27.6	24.5	27.1
E	7.2	11.7	1.6	.1	*		20.5	9.1	21.1	22.5	19.5	19.3
SE	5.2	10.5	2.9	.2	*		18.8	10.2	19.5	20.3	18.0	17.6
S	2.2	4.8	2.4	.3	*		9.6	12.0	10.4	8.7	9.1	10.3
SW	.9	1.8	.7	.1	*		3.4	11.2	2.9	2.6	4.0	4.2
W	.5	.5	.1	*	*		1.1	7.8	.6	.9	1.6	1.1
NW	.9	1.2	.3	*	*		2.4	9.3	1.3	2.1	3.7	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.2	2.5	2.1	2.4
TOT OBS						99271		10.1	26564	21607	29195	21905
TOT PCT	29.1	56.1	13.9	.8	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1909-1974
(OVER-ALL) 1854-1974

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	6.0	53.2	34.2	4.1	.1	*	10.2	100.0	26564
06&09	2.5	6.0	53.4	34.2	3.7	.2	*	10.1	100.0	21607
12&15	2.1	6.8	51.9	34.9	4.2	.1	*	10.2	100.0	29195
18&21	2.4	7.1	51.1	35.3	3.9	.1	*	10.1	100.0	21905
TOT								10.1		99271
PCT	2.3	6.5	52.4	34.7	4.0	.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	3.3	4.1	2.1		3.8
NE	11.2	7.4	7.3	2.5		3.5
E	8.0	5.9	5.7	2.1		3.7
SE	4.9	4.3	5.4	2.4		4.4
S	2.0	2.1	3.7	2.5		5.2
SW	.4	.7	1.3	.9		5.6
W	.2	.2	.3	.2		5.3
NW	.5	.4	.7	.4		4.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.3	.1		3.4
TOT OBS					24085	4.0
TOT PCT	33.1	24.8	28.7	13.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.1	.8	1.2	.6	.5	.1	*	.1	11.1	
NE	*	*	.2	1.0	1.9	1.1	.6	.2	*	.1	23.2	
E	.1	*	.2	.9	1.8	.9	.5	.1	*	*	17.1	
SE	.1	*	.2	1.1	1.9	1.1	.5	.1	*	.1	11.9	
S	.1	*	.2	.9	1.8	.9	.4	.1	*	*	9.9	
SW	*	*	.1	.4	.6	.3	.1	*	*	*	1.7	
W	*	.0	*	.1	.1	.1	.1	*	.0	*	.5	
NW	*	.0	*	.1	.3	.2	.1	*	*	*	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.1	.1	.1	*	.0	.0	.0	1.4	
TOT PCT	.3	.2	1.1	5.3	9.6	5.3	2.9	.7	.2	.4	74.1	24085 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.2	3.9	4.2	4.2	4.2	4.2	4.2	4.2
* OR >2000	7.1	8.8	9.3	9.4	9.4	9.4	9.5	9.5
* OR >1000	14.7	17.9	18.8	18.9	19.0	19.0	19.0	19.0
* OR >600	18.6	22.9	24.0	24.2	24.2	24.3	24.3	24.3
* OR >300	19.1	23.6	25.0	25.2	25.3	25.3	25.3	25.4
* OR >150	19.2	23.9	25.2	25.4	25.5	25.5	25.5	25.5
* OR > 0	19.3	24.1	25.4	25.7	25.8	25.8	25.9	25.9

TOTAL NUMBER OF OBS: 24454

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.3	17.8	20.7	16.1	9.9	5.9	6.0	5.5	8.5 .2	25729

PERIOD: (PRIMARY) 1909-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	*	*	*	.0	.0	.0	.1	
<1/2	NO PCP	*	*	*	*	.0	*	*	*	.0	.0	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
1/2<1	NO PCP	*	*	.0	*	*	*	*	*	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
	PCP	*	*	*	*	.1	*	*	*	.0	.0	.2	
1<2	NO PCP	*	*	*	*	*	*	*	.0	.0	*	.1	
	TOT %	.1	.1	*	*	.1	*	*	*	.0	*	.4	
	PCP	.1	.1	.1	.2	.1	.1	*	*	.0	*	.7	
2<5	NO PCP	.1	.4	.3	.2	.2	.1	*	.1	.0	*	1.4	
	TOT %	.2	.5	.4	.4	.3	.2	.1	.1	.0	*	2.1	
	PCP	.3	.4	.5	.7	.5	.2	*	.1	.0	*	2.7	
5<10	NO PCP	1.9	3.1	2.5	2.3	1.4	.6	.2	.3	.0	.2	12.4	
	TOT %	2.2	3.5	3.0	3.0	1.9	.7	.2	.4	.0	.2	15.1	
	PCP	.3	.4	.5	.4	.3	.1	*	.1	.0	*	2.1	
10+	NO PCP	12.0	23.8	17.8	13.3	7.6	2.3	.6	1.5	.0	1.4	80.2	
	TOT %	12.3	24.2	18.2	13.7	7.8	2.4	.7	1.5	.0	1.4	82.2	
	TOT OBS												29364
	TOT PCT	14.7	28.3	21.6	17.2	10.2	3.4	1.0	2.1	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	*	.0	.0	*	*	.0	.0	*	*	
<1/2	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	.0	*	.0		*	
	22+	*	*	*	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
	0-3	*	*	.0	.0	*	.0	.0	*	.0	*	*	
1/2<1	4-10	*	*	*	*	*	*	*	*	.0		*	
	11-21	*	*	*	*	*	*	*	.0	.0		*	
	22+	*	*	*	*	*	*	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
	0-3	*	*	*	.0	*	*	.0	*	.0	*	*	
1<2	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.2	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.1	.1	.1	.1	*	*	*	.0	*	.4	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
2<5	4-10	.1	.2	.2	.2	.1	.1	*	*	.0		.9	
	11-21	.1	.2	.1	.2	.2	.1	*	*	.0		.9	
	22+	*	*	*	*	.1	*	*	*	.0		.2	
	TOT %	.3	.4	.3	.4	.4	.2	.1	.1	.0	*	2.2	
	0-3	.1	.1	.1	.1	.1	*	*	*	.0	.2	.9	
5<10	4-10	.7	1.4	1.4	1.2	.5	.3	.1	.2	.0		5.8	
	11-21	1.0	1.3	.8	1.1	.9	.3	*	.1	.0		5.6	
	22+	.2	.1	.1	.1	.3	.1	*	*	.0		.8	
	TOT %	1.9	3.0	2.4	2.5	1.8	.7	.2	.4	.0	.2	13.0	
	0-3	.6	1.2	1.4	.9	.4	.2	.2	.2	.0	1.6	6.8	
10+	4-10	5.6	14.2	12.3	8.3	3.3	1.3	.5	1.0	.0		46.5	
	11-21	6.2	8.9	4.0	4.6	3.4	1.1	.1	.5	.0		28.7	
	22+	.5	.4	.1	.4	.6	.2	*	*	.0		2.2	
	TOT %	12.9	24.7	17.9	14.1	7.8	2.7	.8	1.7	.0	1.6	84.2	
	TOT OBS												53371
	TOT PCT	15.2	28.2	20.7	17.1	10.0	3.7	1.0	2.2	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1909-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.2	1.0	4.5	8.3	4.4	2.4	.7	.2	.4	22.6	77.4	5735
06&09	.5	.1	1.3	5.3	9.6	5.0	2.8	.6	.2	.4	25.8	74.2	5845
12&15	.2	.2	1.0	5.8	10.0	5.4	3.2	.9	.3	.2	27.1	72.9	6922
18&21	.2	.2	1.0	4.9	9.2	5.4	2.9	.6	.2	.4	24.8	75.2	6863
TOT													25365
PCT	.3	.2	1.0	5.1	9.3	5.1	2.8	.7	.2	.3	25.1	74.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.1	.4	2.4	14.0	83.1	14646
06&09	.2	.2	.5	2.5	14.8	81.9	11862
12&15	.1	.1	.5	2.2	12.4	84.7	15254
18&21	.1	.1	.4	1.9	11.5	86.1	12343
TOT							54105
PCT	.1	.1	.4	2.2	13.1	84.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	1.8	8.3	15.9	75.7	5508
06&09	.5	2.2	9.6	18.2	72.2	5574
12&15	.2	1.5	9.1	19.1	71.8	6749
18&21	.3	1.5	8.0	18.0	73.9	6623
TOT						24454
PCT	.4	1.7	8.8	17.9	73.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.0	.0	.0	.0		*
90/94	.0	*	.0	.1	.1	.1	*	.0		.3
85/89	.0	.0	*	.2	1.0	1.1	.3	.1		2.7
80/84	.0	.0	*	.2	3.7	13.4	7.5	1.7		26.6
75/79	.0	*	*	.7	4.4	18.2	18.2	7.1		48.7
70/74	.0	.0	*	.5	3.0	6.1	7.0	4.2		20.9
65/69	.0	.0	.0	*	.1	.2	.3	.3		.9
60/64	.0	.0	.0	.0	*	*	.0	.0		*
55/59	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL									23599	100.0
PCT	.0	*	.1	1.7	12.4	39.1	33.3	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.1	.1	.1	*	.0	*	*	*	.0	*
.7	1.0	.6	.2	*	*	*	.1	.0	.1
5.6	9.2	5.8	3.1	1.3	.5	.2	.5	.0	.5
7.3	13.6	10.5	8.4	5.0	1.6	.4	1.0	.0	.8
1.3	3.9	4.6	5.4	3.7	1.1	.2	.4	.0	.2
*	.1	.1	.3	.3	.1	*	*	.0	*
*	*	*	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
14.9	28.0	21.7	17.4	10.3	3.3	.8	2.0	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	81	79	77	73	70	55	76.3	26490
06&09	92	81	79	76	72	70	59	76.0	21536
12&15	95	87	83	78	73	71	63	78.1	28427
18&21	96	87	84	78	74	71	62	78.4	21180
TOT	96	85	82	77	73	70	55	77.2	97633

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.8	7.4	36.2	39.9	15.6	81	5874
06&09	.0	.9	7.2	33.7	40.4	17.9	81	5637
12&15	.0	2.2	15.0	40.6	30.0	12.2	78	6588
18&21	.0	3.0	18.8	44.9	24.2	9.1	76	6074
TOT	0	426	2974	9442	8063	3268	79	24173

PERIOD: (PRIMARY) 1909-1974
(OVER-ALL) 1854-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	*	*	4	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.0	*	*	8	.0	*
11/13	.0	.0	.0	.0	*	*	*	.1	.1	*	63	.0	.2
9/10	.0	.0	.0	*	*	.1	.1	.2	.1	*	129	.0	.5
7/8	.0	.0	.0	*	.1	.2	.3	.4	.2	.0	299	*	1.1
6	.0	.0	.0	*	.1	.2	.3	.3	.1	.0	246	.0	.9
5	.0	.0	.0	*	.2	.4	.6	.5	*	.0	440	*	1.7
4	.0	.0	*	*	.4	.9	1.1	.5	*	.0	745	*	2.9
3	.0	.0	*	.1	.4	1.4	1.5	.3	*	.0	988	*	3.8
2	.0	.0	*	.1	1.2	3.0	2.5	.2	*	.0	1846	*	7.1
1	.0	.0	*	.2	2.4	5.1	3.0	.1	.0	.0	2811	.1	10.8
0	.0	.0	*	.4	5.2	8.1	3.3	*	.0	.0	4424	.1	16.9
-1	.0	*	*	.7	6.8	7.7	2.0	*	.0	.0	4495	.1	17.1
-2	.0	.0	*	1.2	6.0	5.7	1.1	*	.0	.0	3632	.1	13.9
-3	*	.0	*	1.2	4.1	3.4	.4	.0	.0	.0	2393	*	9.2
-4	.0	.0	.1	1.2	2.7	1.9	.2	*	.0	.0	1589	*	6.1
-5	.0	*	.1	1.0	1.6	.8	.1	*	.0	.0	908	*	3.5
-6	.0	.0	.1	.6	.9	.3	*	.0	.0	.0	471	.0	1.8
-7/-8	.0	.0	.1	.5	.6	.1	*	.0	.0	.0	360	*	1.4
-9/-10	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	103	*	.4
-11/-13	.0	*	*	*	*	*	.0	.0	.0	.0	36	.0	.1
-14/-16	.0	*	*	*	.0	.0	.0	.0	.0	.0	7	*	*
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL											26000		
PCT	*	*	.6	7.4	32.7	39.3	16.7	2.7	.5	*	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.7
1-2	.1	3.0	1.3	.0	.0	.0	4.4
3-4	*	1.7	3.2	.1	.0	.0	5.0
5-6	*	.2	2.3	.2	.0	.0	2.8
7	.0	*	.5	.1	.0	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	7.6	.6	.0	.0	14.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	*	.0	.0	.0	1.4
1-2	.4	8.1	1.9	.0	.0	.0	10.5
3-4	.1	5.0	5.8	.1	.0	.0	11.0
5-6	*	.7	3.1	.2	.0	.0	4.0
7	.0	.2	.9	.1	.0	.0	1.2
8-9	.0	*	.1	.1	.0	.0	.2
10-11	.0	*	*	*	.0	.0	.1
12	.0	*	*	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	15.2	11.9	.5	.0	.0	28.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.1	.0	.0	.0	1.7
1-2	.5	6.8	1.1	.0	.0	.0	8.4
3-4	*	3.9	2.8	*	.0	.0	6.8
5-6	*	1.0	1.5	.1	.0	.0	2.5
7	.0	.1	.4	.1	.0	.0	.6
8-9	.0	*	.1	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	.1
12	.0	*	.0	*	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	13.0	5.9	.3	*	.0	20.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	*	.0	.0	.0	1.0
1-2	.3	5.0	1.0	.0	.0	.0	6.3
3-4	.1	2.6	3.3	*	.0	.0	6.0
5-6	.0	.7	1.7	.2	.0	.0	2.6
7	.0	.1	.9	.2	.0	.0	1.2
8-9	.0	*	.3	.1	*	.0	.4
10-11	.0	.0	*	.1	.0	.0	.2
12	.0	*	*	*	.0	.0	*
13-16	.0	.0	*	.1	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.2	7.3	.7	*	.0	17.7

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0008 VITORIA NE
18.6S 38.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	.1	2.2	.7	.0	.0	.0	3.1
3-4	*	1.2	2.3	.1	.0	.0	3.7
5-6	*	.3	1.6	.2	*	.0	2.1
7	.0	*	.5	.4	*	.0	.9
8-9	.0	*	.1	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	*	*	*	.0	.1
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	5.3	1.2	.1	.0	10.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	.1	1.0	.3	.0	.0	.0	1.3
3-4	*	.4	.6	*	.0	.0	1.1
5-6	.0	.1	.5	.1	*	.0	.6
7	.0	*	.1	.1	.0	.0	.2
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	1.5	.3	*	.0	3.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1
1-2	*	.2	.1	.0	.0	.0	.3
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	*	*	.0	.0	.1
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.2	*	.0	.0	.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.1	*	.0	.0	.0	.2	
1-2	*	.7	.2	.0	.0	.0	.9	
3-4	*	.3	.3	*	.0	.0	.7	
5-6	.0	.1	.2	*	.0	.0	.3	
7	.0	*	*	*	.0	.0	*	
8-9	.0	.0	*	*	.0	.0	*	
10-11	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.2	.7	*	.0	.0	2.2	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	4.2	.2	.0	.0	.0	8.6	
1-2	1.9	26.9	6.4	.0	.0	.0	35.3	
3-4	.3	15.1	18.2	.5	.0	.0	34.0	
5-6	*	3.0	10.8	1.0	*	.0	14.8	
7	.0	.5	3.3	.9	*	.0	4.8	
8-9	.0	.1	.8	.6	*	.0	1.5	
10-11	.0	*	.2	.4	.0	.0	.6	
12	.0	*	*	.1	*	.0	.2	
13-16	.0	.0	*	.1	*	.0	.2	
17-19	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								10381
TOT PCT	6.5	49.9	40.0	3.5	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	13.5	18.3	6.8	1.9	.6	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	8830	3
6-7	.1	1.9	10.9	11.0	3.8	1.1	.4	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	5955	5
8-9	*	.4	2.2	3.4	2.9	1.0	.4	.1	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	2135	6
10-11	.0	.5	.6	.7	.7	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	651	6
12-13	.0	.0	.5	.2	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	5
>13	.0	.0	*	.2	.1	*	*	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	94	8
INDET	2.0	2.6	3.7	2.0	.9	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2353	3
TOTAL																				20243	4
PCT	4.3	18.9	36.2	24.2	10.4	3.4	1.5	.6	.4	*	*	*	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1974
(OVER-ALL) 1854-1974

TABLE 20

AREA 0008 VITORIA NE
18.6S 38.0W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	10	*
87/88	*	.1	.1	*	*	.0	.0	.0	.0	*	*	*	29	*
85/86	.3	1.0	1.1	.5	.2	*	.0	.0	*	.0	*	.1	251	.3
83/84	2.8	6.9	9.6	5.3	1.2	.3	*	*	.1	.1	.3	.7	2075	2.2
81/82	23.9	38.0	46.3	34.3	10.4	2.8	.4	.4	.3	1.0	3.1	6.9	12790	13.6
79/80	44.1	41.4	32.9	40.9	30.6	11.4	2.9	1.5	1.9	5.1	13.3	29.1	19614	20.8
77/78	23.2	10.2	8.0	15.1	39.0	35.8	15.7	9.5	11.7	22.5	37.4	42.2	21441	22.8
75/76	3.8	1.4	1.2	2.8	14.5	35.6	41.6	34.1	39.5	42.3	32.4	17.0	21307	22.6
73/74	1.2	.5	.5	.8	3.3	11.3	31.3	41.8	37.8	22.7	10.6	2.9	13084	13.9
71/72	.4	.3	.1	.2	.6	2.1	6.3	9.8	6.6	4.9	2.0	.8	2721	2.9
69/70	.3	.1	*	.1	.2	.5	1.4	2.1	1.4	1.0	.6	.2	609	.6
67/68	.1	.1	.0	*	.1	.1	.3	.5	.2	.2	.1	.1	146	.2
65/66	.0	.0	*	.0	.0	*	.1	.2	.2	.1	.1	.0	51	.1
63/64	.0	.0	.0	.0	*	*	.1	*	.1	.0	*	.0	20	*
61/62	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	2	*
59/60	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	6997	7161	7795	7889	8955	8896	8808	7897	7285	7617	7638	7213	94151	100.0
MEAN	79.3	80.2	80.6	79.9	78.1	76.4	74.9	74.3	74.6	75.4	76.6	77.8	77.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1014	1013	1014	1014	1014	1013	1013	1013	4348
FEB	1013	1014	1013	1015	1015	1015	1013	1014	1014	4469
MAR	1014	1014	1013	1015	1015	1014	1013	1014	1014	4787
APR	1015	1016	1014	1015	1016	1016	1014	1015	1015	4968
MAY	1017	1018	1016	1017	1018	1018	1016	1017	1017	5395
JUN	1019	1019	1018	1020	1020	1020	1018	1019	1019	5165
JUL	1021	1021	1020	1021	1022	1021	1020	1020	1021	5206
AUG	1020	1020	1019	1020	1021	1021	1019	1020	1020	4498
SEP	1019	1019	1018	1019	1020	1019	1017	1018	1018	4550
OCT	1016	1016	1015	1017	1017	1016	1015	1016	1016	4704
NOV	1014	1014	1013	1014	1015	1015	1013	1014	1014	4561
DEC	1013	1013	1012	1014	1014	1014	1012	1013	1013	4384
ANN	1016	1017	1015	1017	1017	1017	1015	1016	1016	57035
OBS	9279	4807	10924	2251	10010	6095	11518	2151		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1006	1009	1012	1014	1015	1018	1019	1025
FEB	1002	1006	1008	1012	1014	1015	1018	1019	1023
MAR	1002	1007	1009	1012	1014	1016	1018	1019	1026
APR	1001	1007	1011	1013	1015	1017	1019	1022	1029
MAY	1002	1010	1012	1015	1017	1019	1021	1023	1027
JUN	1006	1011	1014	1017	1019	1021	1024	1026	1031
JUL	1002	1013	1016	1019	1021	1023	1026	1028	1031
AUG	1008	1012	1015	1018	1020	1022	1025	1027	1033
SEP	1001	1010	1013	1016	1019	1021	1023	1025	1030
OCT	1001	1007	1010	1014	1016	1018	1021	1023	1029
NOV	1001	1005	1008	1012	1014	1016	1019	1021	1029
DEC	998	1005	1008	1011	1013	1015	1018	1019	1028

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